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AND THE

REPORTS AND PAPERS PRESENTED IN THE SEVERAL SECTIONS

EDITED FOR THE ASSOCIATION BY N S DAVIS, M D, LL D

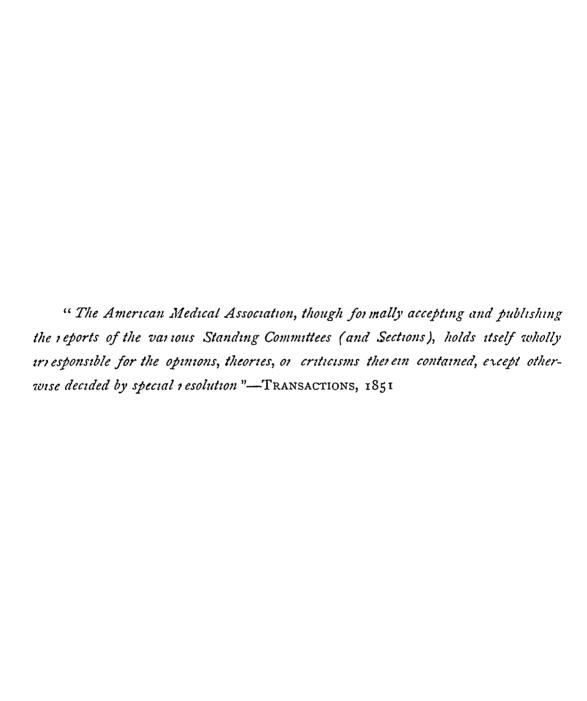
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No 1.

CLINICAL LECTURE

TUBERCULAR MENINGITIS

Delivered at the Woman's Medical College, Chicago, Ill

BI DANIEL R BROWER, M D,

PROFESSOR OF DISEASES OF THE NERVOUS SYSTEM DIDACTIC AND CLINICAL, IN THE WOMAN'S MEDICAL COLLEGE LECTURER ON THE PRACTICE OF MEDICINE IN PUSH MEDICAL COLLEGE, CHICAGO ILL

(Reported by WILLIAM WHITFORD)

The subject for this morning's consideration is tubercular meningitis, basilar meningitis, acute hydrocephalus, an inflammation of the membranes tubercular diathesis miliary tubercles These miliary tubercular demater to be involved in this process vessels, they occur by preference in the area of dis tribution of the Sylvian artery

These miliary tubercles depositing themselves in the walls, contracting the cerebral blood vessels, occur in other vessels at the base of the brain These miliary tubercles are the source of irritation, indicated, and give rise to inflammation of the logical history, and as we shall subsequently see, clinical history of the disease We have first the the stomach deposition of tubercles, producing irritation, interbecomes more and more interfered with, an inflam matory exudation begins to take place, giving rise to the diagnosis the clinical history characteristic of the second stage of the disease The outpouring of serous effusions into the ventricles of the brain gives rise to the symptoms characteristic of the third stage of the disease

Its clinical history is, first the period of invasion, the time when the child begins to be sick from the tubercular meningitis

tubercle is about the size of a millet seed, but by a process of aggregation they may become large masses

A child so troubled begins to be emaciated emaciation especially marked about the lower ex-Children with this disease are usually tremities very bright There is in connection with this miliary tuberculous condition a precocity instance, you take the ordinary form of tuberculosis—phthisis pulmonalis—people so afflicted are often above the average in mental capacity Indeed, some of the most brilliant people the world has ever produced have been, and are, patients with this So in this disease, with such of the brain that has its origin in the deposition of tuberculous inheritance, children are precocious, bright, smart, beyond their years They begin to posits occur mainly in the blood-vessels of the pia be fretful, irritable, peevish, and complaining, noth-It is an uncommon thing for the dura ing satisfies them. While at play, a child so afflicted, he involved in this process. They form in will suddenly stop, and classing its hands to its They form in will suddenly stop, and clasping its hands to its the perivascular spaces and in the walls of the blood- head will cry out with pain. The appetite fails, the tongue becomes a little coated, and sometimes a little thickened in appearance, there is a slight, perceptible rise in the evening temperature, a little cough, a loathing and disgust for food, there is a filling up the perivascular spaces, blocking the blood variation of the pulse, sometimes constipation, and current, give rise to thrombosis, softening of the sometimes diarrhea. The prodromic period of irvessel, and to extravasation of blood They also ritation lasts a month, or perhaps two months, and these symptoms often pass unnoticed by the parents

After a time we begin to have symptoms characthey obstruct the blood current in the way we have teristic of the development of tubercular meningitis—the first stage proper We have as one of its cerebral membranes with subsequent exudations, most striking and early symptoms, vomiting The and to an immense outpouring of serum into the child vomits without any provocation from food, and ventricles, so that we have three stages in the patho- this vomiting is of a most peculiar character, and once seen is never to be forgotten these three stages give rise to three stages in the nausea, but an immense outpouring of fluids from Sometimes the character of the fluid is that of simple mucus, in a word, there is prodigifering with the blood supply Then, later on, as ous, projectile vomiting without any apparent cause the miliary tubercles increase, and the circulation from the injestion of foods This cerebral vomiting unattended by nausea, is an important element in

The child begins to complain of headache, to show signs of intense pain. It puts its hands to its head and cries out frequently with great pain, and this pain, let me say, is of a most intense, excruciating character I think there is no pain so intensely acute, severe, and overwhelming as the headache of deposition of miliary tubercular deposits—deposits or less motor disturbance, and, by the way, we may which are exceedingly small—sometimes so small as state here in passing, that the beginning, the progress, not to be recognized by the naked eye A miliary and order of symptoms of the disease depend largely

deposited If they are deposited primarily in the area of the cerebral artery, the motor disturbance at the outset will be quite marked, manifesting itself in the way of spasms, twitchings of the facial muscles, jerkings of the limbs, muscular tremors, etc. Sometimes when the disease commences in this area, and is progressing rapidly, epileptiform convulsions are Then, at about this time, certain ushered in sensory disturbances manifest themselves, there is general hyperæsthesia, a great intolerance of lights and of sound, the pupil is contracted, the child is intolerant of the least possible effort at movement, walking across the room will give it intense pain Frequently, we have too, certain psychical symptoms, evidences of mental disturbance If the deposition of miliary tubercles begins or takes place in the anterior cerebrum, the area of disturbance being there, it has more to do with the intellectual manifestations of the patient, and the psychical symptoms are early and prominent ones. The child becomes more emotional and irritable, a little delirium begins to show itself just as the child is going to sleep or waking up When it awakens, it does so with an intense cry—a cry so heart-rending and peculiar that it has been called the "hydrocephalic cry"

We find a disturbance in the vaso motor area of If you take your finger nail the nervous system and draw it over the thoracic and abdominal areas, especially where the two areas unite, it will speedily below normal, the fever disappears, the pulse bebe followed by a bright red line that will remain there for, perhaps, several moments—the "tache ular, and we have that respiration characteristic of cerebrale" of Trousseau While it is not pathogno- pressure made upon the medulla, the so-called monic of tubercular meningitis, yet it is rarely found in any other disease of the body that does not involve this inflammatory, irritative condition of the cerebral membranes It is the beginning of this This "tache cerebrale" is form of nervous disease found early, and is the result of interference with the activity of the vaso-motor nervous system

The abdomen at this time presents a peculiar "boat-shaped" appearance, an important point in the diagnosis, from the fact that in other infantile diseases which closely resemble tubercular meningitis, it is usually found tympanitic, distended, but in this disease it is retracted, the umbilious is thrown well back towards the spinal column, so that it presents what is admirably termed "a boat-shaped appearance "

The temperature of the disease is well worthy There is from the beyour careful consideration ginning of the prodromal period a slight rise in temperature, and when the first stage of the disease has become established, the evening temperature will be found to be one or two degrees higher than that of the morning, but it rarely ever rises above 103°, except when the disease is about to terminate fatally The exacerbations and remissions are irregular, they do not pursue that regular, uniform course which is characteristeric of the disease that closely resembles it, namely, remittent fever pulse is important in the beginning of the disease It is usually full, compressible, regular During the minute, and associated with this great rapidity of the stage of irritation, when you have the vomiting, to pulse is more or less irregularity, the beats are not

upon the place where the miliary tubercles are first which I have alluded, and sensory disturbance, the pulse, as a rule, is regular, and not unduly fast, which is another important aid in the differential diagnosis Respirations are regular, and become more rapid than normal in the early history of the During the primary stage, we have another symptom of great value, and that is constipation of a very obstinate character Ordinary doses of laxatives are entirely inefficient to overcome it

Now, as the disease progresses, and the exudations begin to appear, a change manifests itself in the symptoms, and in the majority of cases you will flatter yourselves that your treatment has been a success, and that your patient is convalescing The vomiting ceases, the headache disappears, the muscular spasms and convulsive movements cease to a greater or less extent, the child is no longer intolerant of light and of sound, the contracted pupil begins to become normal in character, and for a few days it would seem the patient was certainly getting better But very suddenly there comes an increase in the mental hebetude, an increase in all the psychical symptoms The delirium becomes more marked, the tendency to sleep becomes greater, and the child loses almost altogether its active responses to external impressions, it becomes, in a word, dull, heavy, soporous Along with this condition, we have alterations in temperature The characteristic remissions of the first stage disappear, the temperature, as a rule, falls comes slow and irregular, respirations become irreg-"Cheyne-Stokes respiration," which consists in a respiratory manifestation by a series of cadences The respiration will be normal in one or two movements, and then the depth of the movements will seem to increase, and the interval between the respiratory connections increases until the respirations gradually fade away, and for several seconds cease, after which they again become more manifest interval will be shortened in its duration, the respiratory action will be increased until they again become normal, following which is a retrocession, until the respiratory action ceases, and so the respiratory phenomena continue The peculiar character of the respirations will, as a rule, manifest itself at night During the whole day the respirations will, perhaps, be normal, but as night approaches this peculiar, medullary respiratory action, characteristic of pressure made upon the medulla, and named after the two distinguished pathologists, Cheyne and Stokes, Exudation has been going on, the effucomes on sion of serum has increased, and we gradually begin to get more pressure upon the important structures at the base of the brain, and as a consequence we have a very great increase in the comatose condi-It becomes now almost impossible to arouse the child, and along with this increased coma there occurs a very remarkable change in the pulse The condition of the pulse, which had been normal, now becomes exceedingly frequent, reaching from 150 to 170 beats in a

During this stage of the dis of the same intensity ease the spasms that characterize the motor disturb ance at the outset develop into paralysis You will find one side of the face, or some member of the body, such as an arm, or a leg, or both, paralyzed Just before death ensues, as a rule, we have decided elevation of temperature, the temperature frequently running to 105°, and paralysis before the scene closes becomes generally diffused

Now, as to certain points in the diagnosis of this It is hable to be mistaken for ordinary acute meningitis, for gastro enteritis, for infantile remittent fever, for acute Bright's disease We told you at the beginning of the lecture that tubercular meningitis was basilir, that the base of the brain was involved in the pathological processes most uncommon thing to find any of these miliary The convexity of tubercles elsewhere in the brain the brain escapes, except in so far as it becomes involved later along from pressure of serous and puru lent exudations

A surface thermometer will aid you in diagnosis There is a certain fixed relation, in a state of health, between the temperature of different parts of the head, as rudely shown in this hastily prepared dia-Taking the left side of the brain, we have here (illustrating) three areas designated, the frontal, the parietal, and occipital, corresponding to the three divisions of the surface of the cerebrum peratures shown in the diagram are determined by examination of different classes of people in Brooklyn and New York, by the distinguished specialist, Dr Gray In the temporal region, as you see, the temperature is 94 2°, over the parietal, 94 3°, in the occipital, 92 3° On the right side the tempera tures are generally lower, the right side, of course, having less functional cerebral activity than the left The frontal temperatures are lower than those of the occipital in tubercular meningitis. The relation is disturbed The occipital area is where the disease spends its force largely The relations of the areas

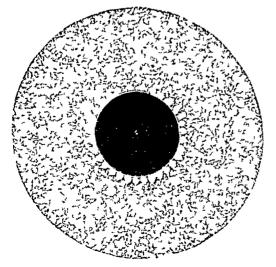


Diagram 1 Wreath of white clouds

symptoms enumerated, will serve to make the diagnosis clear We have also, in the first stage of the disease, a contracted, mobile pupil In the second stage the pupil dilates a little, is immobile and insensible, so far as contact with light is concerned There is not only dilatation of the pupil, but certain important changes take place around the pupillary margin About the sixteenth of an inch or less from the margin proper there begins to form a distinct wreath of white clouds (see diagram 1), doubtless due—as has been determined by Dr John D Skeer, of this city, who was the first physician to discover this pathognomonic symptom—to changes in the iris and the deposition of minute, miliary tubercles upon the vessels Now this is to be seen only in the incipient stage of the disease, and when you have associated with the symptoms we have described, this characteristic condition of the iris, you are absolutely certain of your diagnosis of tubercular meningitis. Unfortunately, this symptom is not always present, just as other classical symptoms are sometimes absent in other If this condition of cloudiness around the pupillary margin happens to be present, after three or four days it begins to disappear Instead of minute, cloud-like masses, we have a yellowish brown circle (see diagram 2), this change taking

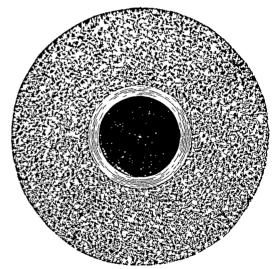


Diagram 2 I ellowish brown circle

place at the beginning of the second stage, due, doubtless, to degeneration of the blood vessels and tissues as a consequence of the presence of miliary tubercular deposits In the third stage this yellowish brown circle becomes very much attenuated by the dilatation (see diagram 3) of the pupil seems to be, in addition to the miliary tubercular deposit, a destruction of the circular muscular fibres of the iris, the pupil ceases to be responsive to light, it becomes immovable Then, too, the ophthalmoscope is a very valuable aid in the diagnosis during the primary stage of the disease If you examine the vessels of the retina with an ophthalmoscope you will find venous stasis of the blood-vessels, they appear tortuous and enlarged, you will find miliary tubercuthen are disturbed, and this, associated with the other lar deposits in the choroid, and later along in conseexisting there, you will have a neuro retinitis

from the signs we have mentioned, is the slow, insidi- low, in tubercular meningitis it is great, and the conous onset of the disease slowly, but tubercular meningitis comes on in a slow, insidious way, the prodromal stage requiring, as a rule, a week or ten days, sometimes even a longer

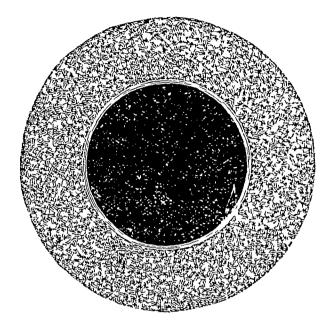


Diagram 3 Pupil dilated

Tubercular meningitis rarely ever period than this occurs before the age of 2 years, and rarely occurs If the child is over 7 or under 2 after the age of 7 years, the probabilities are against a tubercular form of the disease

Its differentiation from gastro-enteritis is made by the boat-shaped appearance of the abdomen, and the presence of the other pathognomonic symptoms here described

The most perplexing of all diseases, I think, is re-More mistakes have doubtless been made in the differentiation here than in all the other Of course, when diseases which it closely resembles we have the head symptoms, the spasms, pain, rise in temperature, etc, together with the pupillary changes, we can easily differentiate the case when the three several pathognomonic symptoms are not observed, or observable, then differentiation be-To repeat the differentiation comes more difficult is to be made mainly by the fact that tubercular men ingitis shows a boat shaped abdomen, and an obsti This disease shows a temperature nate constipation like that of remittent fever, but lacking its regularity The vomiting in tubercular meningitis differs from that of remittent fever in that it is a vomiting without nausea-indeed, without any evidence whatever of any gastric disturbance, the tongue has little or no fur upon it, whereas the tongue in a case of remittent fever is very foul and thick

Errors in differentiation of tubercular meningitis from spurious hydrocephalus may arise, but the histonosis easy If the child is young, you have in spuri- this comparatively modern treatment to know of its

quence of the progress of the inflammatory changes ous hydrocephalus a depressed fontanelle, in the disease under consideration an elevated fontanelle Another point in the differential diagnosis, apart In spurious hydrocephalus intracranial pressure is Acute meningitis develops dition of the fontanelles will enable you to differentiate it

> The prognosis of the disease is very bad sional recoveries take place, but they are exceedingly few and far between Yet there are cases on record where post-mortem examinations have revealed the fact that death resulted from other causes than those characteristic of tubercular meningitis, especially in the history of a form of insanity to which your attention will be directed later on, which gives us reason to believe that occasionally the disease is recovered Many physicians who see the cases of recovery from tubercular meningitis will tell us that we erred in diagnosis, that it was simple meningitis, and

> The duration of the disease is from 16 to 21 days, except in those cases that are ushered in by convul-Then, of course, the duration is very short

> The most important element in the treatment is that which is prophylactic, which takes the child from its birth, knowing its tubercular diathesis, and by Judicious, hygienic measures overcomes its tenden-It involves a treatment for the eradication of the tubercular diathesis, fresh air, sunshine, nutritious food, careful attention being paid to elimination, the use of mild alteratives, etc

In connection with the tubercular diathesis we must necessarily have an exciting cause or causes, and among some of them are the ordinary febrile diseases of children—the exanthemata, for instance -especially measles, which is a fruitful exciting cause Children with a tubercular inheritance should be carefully guarded against such affections as ordinary whooping cough, otorrhea, etc, which are very common among children, and if any one of these diseases should occur, it should be vigorously treated There is, unfortunately, a notion among the laity, especially the more ignorant class, that discharges from the ear are more wholesome than otherwise, and sometimes such a condition is allowed to go on without attention being paid towards early and prompt treatment Children should be guarded also But against injuries of the head The majority of cases that have come under our notice have been the results of muries of the head

When the disease has once become established, the treatment to day that is regarded by those who have had the largest experience as the most scientific and likely to give better results than anything heretofore proposed, or brought before the profession, and holds out the most encouragement—and it is not worth our while to mention the numerous lines of treatment that have proved inefficient—is the treatment by inunctions of iodoform—iodoform and lanoline or vaseline, about 1 part of iodoform to 5 of the vehicle Make an application of iodoform inunctions at least twice daily to the scalp, the head being shaved for the purpose, and the scalp being covered ry of the later disease, in some cases, makes the diag- with an impermeable cap We have seen enough of practical value if the iodoform inunction treatment is used early in tubercular meningitis, the proportion of recoveries will be much larger To allay the intense motor and sensory disturbances, opium is indicated, and the bromide of potassium To relieve the congestion of the blood vessels of the hard, elimination by the bowels is indicated, and laxatives, diuretics, etc., may be given

ORIGINAL ARTICLES.

STATE REGULATION OF THE PRACTICE OF MEDI-CINE-ITS VALUE AND IMPORTANCE

Read in the Section on State Medicine, at the Thirty Lighth Annual Meeting of the American Medical Association, June, 1887

> BY II C MARKHAM, MD, OF INDEPENDENCE IOWA

Experience has demonstrated that genuine scientific culture is everywhere productive of a cast of mind averse to abrupt innovation or the acceptance of an unproven principle or theory This characteristic as existing in the body of the medical profession. has in the past operated adversely to the acceptance legal or State regulation of medical practice in any political expedient—as its potent success abroad exist fully proves—it receives the aspects referred to when applied to States having the peculiarities of social and political systems possessed by those whose citizens we are

Irregular and criminal practice has so intrenched itself, and become so closely interwoven in our social fabric, that only the most judicious and united effort, presents any hope for the erection of a legal barrier adequate to the accomplishment of its object, which latter is the protection of the public

The aggregation and concentration of population is productive of danger to life and health, the removal of which is the unquestioned duty of the State To those familiar with the subject it is scarcely necessary to state that the history in various of our States of attempts to secure legislation for the regulation of the practice of medicine, presents little other than a For several years a small number of philanmaintained the unequal contest with the hosts of ignorance and charlatanism—while the main body of ultimately required and frequently with open criticism, declined to ren- National governments der the assistance upon which success depended

We have a case now under is, in its influence, a most serious misconception of observation recovering from its use, and know of the actual object of the legislation in question. Even two or three cases of the fatal form in which life at the present time it is no uncommon thing to hear was prolonged very much beyond the ordinary from the lips of members of the profession who, in limit by its application. It is the impression now that ability and usefulness, are high in rank, the remark that it is only a question of "the survival of the fittest"—that "scientific medicine deserves disgrace and defeat if unable to stand against quackery" This terse expression of the behef of our brethren betrays the mexplicable erroneousness of their idea of the absolute purpose of this legislation object is the furtherance of class and even of school interests, is a misconception of the animus of the champions of this legislation which its opponents have discovered to be their most powerful weapon

That medical men, by virtue of their calling, are alone competent to measure the evils against which this legislation is aimed, should be its chief promoters, is but commendatory, rather than aspersive, as is The conditions of alleged, of their championship modern life necessitate the expansion and broadening of the historic self sacrificing exercise of charity by medicine toward the individual sufficient to include the public Rightfully or not the latter holds the regular profession responsible for its security against imposition and fraud. State regulation of practice implies the responsibility of the former to institute the method best suited to secure its success The best light available directs us to that system which invests a Commission or Board to examine, decide, and grant or refuse, as the applicants fitness may determine, a permit to practice fitness of the material composing a Board of the of a belief in the principle or practical wisdom of a kind, much but not all depends. The inadequacy of result may, and will rest in the imperfection of the While by no means an experiment or a new law under which they act should such imperfection So strongly intrenched is medical error that it can be overcome only by gradual approaches The danger of failure is lack of patience and All depends upon securing the first advan-So salutary are the effects of this legislation that public approval attests, but will always await their display

That guilt makes cowards of medical pretenders found ample verification in the exodus of hordes of this ilk to adjacent States upon the adoption by the State of Illinois of its present medical practice act Iowa has more recently enjoyed a similar experience As by a miracle towns awoke to find themselves wholly destitute of medical talent. No better endorsement of the law is possible than the resignation exhibited by citizens under such affliction upon being apprised of the cause Uniformity of the standard of qualification adopted by the licensing power of long panorama of heroic endeavor and humiliating the different States, should enable the certificate of any one to be honored by all A central or interthropists from the ranks of scientific medicine have state commission, chosen by the President, equally from the army and civil ranks of practice will be No more is a department of their professional brethren have with folded arms, Justice than of medicine demanded in our State and

To this end the one and all essential prere-The chief obstacle obstructing a proper view of their quisite is the united, earnest and cordial effort of the duty, and more especially that of the public at large, profession in the various States The momentum given by the movement of one should not be lost by mon, and of such only Where the organization of the maction of others The path is thorny and those we labor to rescue too often chill us by that most cruel of wounds, the impugnment of motive, and so slow must our progress prove that only those coming after shall enter the promised land of a redeemed Experience has conclusively shown that at the present time public opinion in some of the States will not permit the suppression of a class of practitioners who, unqualified in various respects, have for a considerable period of time succeeded in concealing the fact from the public This is more than compensated for in the fact that no difficulty is met in rigorously excluding from State limits all foreign incompetents, and as recently stated by the efficient Secretary of the Iowa Board of State Medical Examiners, who says "we have put up the bars most effectually, and if nothing more were gained could afford to wait upon the gradual clearing by what might be termed precipitation by death of the somewhat turbid mixture which is now legally recognized as medical practice "

The Christian and moralist outside the medical ranks have yet to be convinced of the vital impor tance of this legislation to the purity and welfare of our social fabric Everywhere the success of crime is promoted by insidious and concealed attack with fœticide and infanticide, and no prophetic vision is needed, especially by those of our calling, to see the effect upon the home and family of these at present unchecked crimes Beneath the fair white folds of the emblems of the healing art the black flag of the abortionist has always found an easy conceal-To strip the mask from off these interlopers and drive them from the field is required the aid of legislation moulded by those whose knowledge of the situation equips them for the task The numerical decline of the typical and peerless American family, finds fortunate compensation in the rapid increase of the average duration of the life of its members, and a brilliant triumph of our brethren, with others, in the field of sanitary science, and significant in this connection as having been largely accomplished by their wise invocation of efficient legislation

Sanitary science, properly a branch of the healing art, at the present is the vine, medical apathy making itself the branch The same lusus naturæ occurs in several States where our pharmaceutical branch has become not only the vine but the husbandman, having even an alleged disposition to set us down as cumberers of their ground Through the influence insured by and resulting from compact organization, it is made the dictum of their law that a drug upon the shelf is more dangerous to the public than it is when occupying the interior of the victim of ignorant administration Thou shalt For saith the law not sell, but all may administer The term "all" includes, when thus emphasized, our pharmaceutical friends, who appear unsatisfied with the glory resulting from an alliance with that army of conquerors of death and disease whose patented weapons, in glittering array, ornament the shelves of our "legally registered friends " Identity of interest, as that of medicine and pharmacy, admits of legislation in com- elevation of error, and the history of all successful phil-

each is adequate it would be wise, by delegated committees, to seek a plan for the restoration of the oldtime unity of relationship the lack of which, as shown by recent experience, is most detrimental to both States having as yet no proper medical practice or pharmacy law will, by adopting primarily an offensive and defensive alliance of the two callings, thus uniting their strength and interests, secure escape from many obstacles that otherwise would present themselves

The success of the new "Practice Act" of Iowa fully equals the anticipations of its promotors, and has in numerous cases secured the approval of those previously doubtful of its wisdom Before fully operative it induced numbers of those who in public esteem were as deeply rooted in practice as they were towering above other earthly beings, to accept urgent proposals to locate elsewhere Many others determined to remove the rust of years from the once dazzling surface of their collegiate armor, but invariably selected for such polishing one of the colleges duly accredited by the Examining Board of the State It will be noted here, in passing, that this law necessarily establishes the much desired scientific standard of medical institutions of learning also lengthen the list of matriculants of meritorious schools and aid in the extinction of the crop of incorporated blotches whose nefarious avocation has made the exhibition or possession of a medical diploma little other, in the eyes of the public at least, The number of medthan a cheap confidence trick ical pretenders driven from the State of Iowa since the adoption of the Practice Act, scarcely one year since, cannot, of course, be accurately ascertained suffice it to state that it is satisfactorily large law is, in the nature of things, far from being perfect

The objectionable but indispensable feature by which a term of practice in one locality entitles such practitioner to a legal status, is less an objection than its prima facie appearance indicates The records of the Iowa Board show that four fifths of this class of licentiates are certified to as reputable citizenssuch being one of the conditions in the application to said Board-by members of the State Medical Society of Iowa It is also true that prominent and efficient members of the same Society are of the class to which objection is taken Some of these found themselves able to take but two out of three contemplated courses of lectures Others were ill at date of college graduation, and thus were minus the degree which, until the present, was dispensed with at little inconvenience

It is a consideration of practical importance that every licentiate of this class becomes, by virtue of such benefit, a recruit for the further prosecution of the legal extermination of pretenders in medicine It is found that the first step for the protection of the public against fraud and crime in medical guise is attended by a loud clamor for various school representation upon committees or boards created by the Recognition of such claims or proposed legislation men is not their endorsement. There can be no true giant and deep rooted evils has this one feature of their inception stage, a feature often termed compromise, but which with more truth may be called "ra tional concession " Those whose duty is the framing or amending the terms of practice legislation can well afford to consider the problem of the execution of the terms of such legislation, when once enacted Law is never self enforcing, and but few of us relish average citizen the most dearly purchased and essential systems of A violator of the law or legislation have foundered a nuisance whose existence, as that of an infectious disease or death exhaling pool, needs only to be made known to the usual health officer of the district, town or city

As a matter of economy to the State, not to men tion that of necessity, the functions of Health and Practice State Boards should be combined material portion of the machinery of a health department is the appointment in every township of a health official, it should be a provision of the prac tice act that such health officer should, upon being notified, institute proceedings for the arrest and pun ishment of violators of the law Finally, whatever little of practical value may characterize the foregoing, it will have realized its purpose if any impetus or increased interest is added to this our new crusade for the expulsion from the sacred precincts of our several States of the vandal desecrators who, in the guise of true disciples of the healing art, would im peril and ruin home, health, and the happiness of our people and-not the least of all-craftily degrade in public esteem the fair fabric of medicine, over whose vestibule are the words honor, science

A CASE OF RUPTURE OF THE INTERNAL CAROTID ARTERY WITHIN THE CAVERNOUS SINUS

Pulsating Exophthalmus, Ligation of the Internal Carotid Artery Death Autopsy

Read in the Section on Ophthalmology and Otology, at the Thirty Eighth Annual Meeting of the American Medical Association, June, 1887

BY CORNELIUS WILLIAMS, M D, OF ST PAUL MINN

This case is one of exceeding interest, not only because of its rarity but because of its intrinsic im portance and gravity The disease is so rare that in the combined experience of a dozen surgeons of a very large practice it might not be met with once, yet when it does occur it is highly important that it should be recognized and properly treated

The distinguished author of the article on "Pulsating Exophthalmus" in Grafe and Samisch's "Hand book," H Sattler, was only able to collect 106 cases in the literature of the world for a period of more than 70 years In the table that he constructed a num-

anthropic and political methods for the extinction of are that some other lesion was the disturbing factor, but in the majority of cases he has demonstrated that rupture of the internal carotid within the cavernous sinus was the foundation and origin of the exophthalmus

In a certain percentage of cases the disease was practically allowed to take its course and resulted in This termination, it may be assumed, is the natural outcome of rupture of the internal carotid the task of the informer and complainant, wherein in this location, when things are left to themselves, our own interests play no part other than of the or, what is the same thing, when any other treatment It is this rock upon which some of save the most radical is adopted The conditions that govern the result of all surgical operations are, of course, in operation here, and the best directed medical swindler might be treated in one respect as efforts of the surgeon may fail, as was the case here, through no fault of the surgeon himself

On February 8, 1887, Dr J A DuBois, of Sauk Center, Minn, sent James Homm, at 27, to me for treatment The patient was a man of large frame, good muscular development, had never had any venereal disease, had always been in good health, but by his own confession and from the statement of the physician, he has been a very hard drinker Christmas time he was awakened one night by a fit of violent vomiting and retching, which continued almost without interruption from 11 o'clock at night to 2 P M the next day The retching was so violent that it seemed to the patient that every minute must be his last Very soon afterwards he became conscious of intense pain in the left side of his head and ear, together with a whizzing, whirring noise which was so loud that it seemed strange to him that others did not hear it too The patient, who lived on a farm near Sauk Center, was not seen by any medical man at the beginning of the attack, and when, after some days, he was seen by Dr McMasters, of Sauk Center, the left eye was protruding, with the lid dis-The man was drinking heavily, and so concolored tinued until I saw him

February 8, 1887 Left eye markedly prominent, lids puffy and blue, the episcleral vessels enlarged and full, chemosis of conjunctiva, pupil dilated, media Retinal veins enlarged and tortuous, neuroretinitis, no hæmorrhages

 $V_{\frac{20}{30}}$, Em Right eye, $V_{\frac{20}{30}}$, Em Auscultation of the eyeball and side of the head disclosed a loud bruit, continuous, with an accession that was synchronous with the first sound of the heart bruit was heard not only over the left side everywhere with great distinctness but all over the head, with greatest distinctness over the left eye and next over the left temporal region, nothing of interest in The patient was seen at my request by Dr Brisbine, Dr Miller, Dr Witherle, Dr Carl Schulin, Dr Wood, and a number of others, all of whom distinctly heard the bruit and felt the thrill that was appreciable when the ear was held to the temple All bruit stopped on firm pressure applied over the common carotid The patient was placed under observation in St Joseph's Hospital Some two weeks after his admission there, for the first time I was able to perceive pulsation of the eyeball, which was obber of cases are included in which the probabilities was perceptible to the touch when the eye was served when the eye was examined in profile, and

crowded into its socket, or when the finger was forced into the orbit

About this time, too, a small oblong tumor, somewhat curved in outline, near the size of the little finger of a child, appeared just below the lower lid and toward the inner angle This tumor pulsated, was easily compressible, and of bluish color, pulsation was not to be felt by the finger

Four weeks after the entrance of the patient into the hospital Dr E J Abbott, at my request, ligated the left common carotid, in which he was assisted by Dr Wm Davis, Dr Stamm, Dr Shimonek and oth-The ligation was effected without accident and with no unusual damage to the sheath of the artery A double ligature of catgut was applied, the artery The temporal pulse on that side ceased immediately, as did the bruit and the thrill, this cessation was complete and permanent The external wound was closed with silk sutures, after washing with bichloride of mercury solution, 1 to 2,000

On the tenth day the wound had entirely closed save a small pocket at the lower angle, where there had been a small collection of healthy pus No bruit or pulsation had returned Retinal arteries very small, veins still large, neuro retinitis the same, vision very poor, pupil dilated, chemosis and congestion less, exophthalmus less marked, less discoloration of The only general symptom of account was an irregular pulse with some fever at the time the The third day after the operation, abscess formed small doses of whiskey and digitalis were given and these symptoms soon disappeared On this day, the tenth, the patient got up, dressed and walked around It is not known just how long he was up, but the sister in charge was summoned hastily and found the man bleeding furiously from the wound and drenched She with great presence of mind placed her finger in the wound and stopped the bleeding by pressure Dr Abbott and myself were summoned by the house surgeon, when Dr Abbott, assisted by Dr Renz and Dr O'Hage, reopened the wound and tied both ends of the artery, which was found to have ulcerated through between the ligatures No attempt at the formation of a permanent clot could be ascertained, and the artery presented much the appearance of a piece of white rubber tubing The religation of the artery was attended by immense difficulty because of the swelling and matting to gether of the tissues, night came on and we had only a lamp to work by There was no hæmorrhage from the proximal end of the artery during the second operation, but when the surgeon came to look for the distal end after ligation of the proximal, the hæmorrhage all at once came on and for a little while was terrible

The patient never recovered from the effects of the hæmorrlrage On the third day thereafter he became hemiplegic, and soon afterwards aphasic This condition continued for a week, when he died In order to have any post-mortem examination at all it was necessary to make it at once, as the friends of the patients desired to take the body home for burial, and would leave in a few hours The eye that had protruded was now as much sunken in the socket as rectly, to the effect that the exophthalmus, the tur-

the other The skull was opened by Drs Abbott and Shimonek, half an hour after death There were some evidences of a pachymeningitis over the ver-The sinuses were well filled with dark fluid The brain was removed and carefully sliced blood off from above downward A large portion of the left anterior hemisphere was found to be converted into a soft pulp of about the consistence and appearance of very soft fromage de brie, brain otherwise The internal carotid, from its entrance into normal the cranial cavity, was examined without the discovery of anything abnormal in its gross appearance It was the intention to have saved it for further examination but, unfortunately, it was included with the brain substance and sent away with the body The posterior wall of the orbit was chiseled away and the orbital coutents carefully examined by myself Nothing abnormal was found, except perhaps some increase of the adipose tissue The ophthalmic vein may have been somewhat enlarged, but it was not compared with the vein of the other side wound in the neck was covered on its inner surface with a dirty slime, with no appearance of any attempt The ligature of the distal end at repair whatever of the artery had sloughed off partly, and doubtless, had there been sufficient heart force, the man would have had another hæmorrhage

As unsatisfactory as is the result of this post-mor-The only tem examination, it teaches a great deal two pathological conditions which could by any possibility, I think, give rise to the physical condition which existed in this case, are aneurism of the internal carotid within the cranium, or rupture of the internal carotid within the sinus cavernosus Aneurism of any vessel within the orbit could not give rise to all the symptoms, besides, by continued observation lasting a month I had excluded that condition, which I was anxious to find Any malignant or other tumor of whatever nature was likewise excluded tween an aneurism and a rupture of the internal carotid, the chances are always in favor of the existence of a rupture In proportion to the number of cases observed, and where post-mortem section has been made, the cases of rupture are far more numer-Aneurism of an intracranial artery is by far less frequent, in general, than rupture The anatomical difference in the arterial coats here and in other parts of the body may account for it The lesson of the artery within the sinus constitutes the salvation of the patient, it is the accident of position which determines whether the patient shall die instantly, perhaps, from a hæmorrhage into the brain tissue, or whether the peculiar complex of symptoms which constitutes pulsating exophthalmus shall supervene There is one condition which was present in my case which has been mentioned as also occurring in other cases published that is, the small pulsating tumor It did not occur to me with under the lower eyelid equal force at the time, but afterwards it seemed to me that its presence and character may be sufficient to enable us to make a differential diagnosis between aneurism and rupture of the internal carotid

H Sattler has reasoned, and I think most cor-

gescence of the veins of the eye and the lid, etc., none of the usual symptoms of a perinephritic abinto the sinus with each pulsation of the heart. This tumor is simply an exposed vein, enlarged at this point and receiving in its contents in impulse with in the bladder each influx of arterial blood into the sinus Now, if tumor, when it occurs, will always pulsate, a soft, compressible, pulsating tumor not communicating an impulse to the finger Such a condition could not result from mere pressure, but must depend upon regurgitation Only an inflow of arterial blood into the sinus can occasion pulsating regurgitation

As to the failure to find the gross appearances of a rupture of the artery at the post mortem, that does not prove that there had been none I doubt if an actual lesion of integrity will ever be found where as long a time has elapsed from the making of the oper had been the case here There is ample time for a tear in the arterial coats to have healed perfectly, if at rest, in apposition, and no interference with nutrition in the immediate vicinity Only an examination under a lens will disclose the scar there

In regard to the hæmorrhage, it is impossible to say positively that it would have occurred if the pa tient had been entirely prudent. It is possible that, if undisturbed, a clot may have formed and organ-Certain it is that the great loss of blood, low ering the general nutrition and acting on the area of brain already much lowered in vitality, assisted in the production of softening from malnutrition and thus brought on the fatal result

A CASE OF NEPHRECTOMY

Read before the Chicago Medical Society, Nov 7, 1887 BY CHARLES T PAKKES, M D,

PROFESSOR OF SURGERY RUSH MEDICAL COLIEGE ATTYNDING SURGEON TO THE PRESBYTERIAN HOSPITAL CHICAGO

Last July I received a communication from a friend out of the city, stating that a patient had come under his charge who had been suffering for two years with cystitis, the diagnosis being based

upon pus in the urine

When I returned from my vacation in September, I found the patient awaiting me at one of the hos pitals in the city Upon examination it was found that a tumor could be easily palpated in the right side of the body beneath the ribs, large enough to extend down to the superior spinous fossa of the ileum, and reaching up to the hypogastric region be low the liver and percussion, the dulness over the tumor was found to be continuous with the dulness of the liver But the tumor appeared to me to be so elastic as to present some of the characteristics of a sac contain So I introduced an aspirator needle into

are all due to an overfilling of the veins from regur- scess, it was diagnosticated to be a case of suppuragitation of blood from the sinus cavernosus, and he tive disease of the kidney communicating with the shows how this may readily occur, given a rupture bladder through the ureter, the bladder being the of the artery, with consequent influx of arterial blood outlet of the pus. There was no apparent disease of the bladder itself, other than that which would be present as a consequence of the foreign substance

Obtaining the patient's consent to an operation, there is a rupture of the artery within the sinus, the an incision was made over the tumor to the outside of the erector spine muscle, and it was exposed, then the pockets of pus in the organ were located by the hypodermic syringe On this occasion, three pockets of considerable size were opened, and drainage tubes introduced About a pint of matter was let out It was decided that these three pockets, that were found by introducing the syringe in different places, did not communicate with each other. they were separate cavities, and I think that is the usual condition found in this sort of disease of the

kidneys, the pockets are multilocular

One of them opened freely into the pelvis of the ation to the making of the post mortem section as kidney, so that through the incision that was made the finger passed into the pelvis, and water injected into this went into the bladder, showing that there was a direct communication from this cavity of pus to the bladder and urethra The drainage tubes were left in and the patient improved promptly, losing the fever and symptoms of pus accumulation and retention For two weeks the improvement continued, then it was noticed that she began to fail rather rapidly and to show signs of fever again, there were signs of septic accumulation, and the tumor began to increase in size, so that from diminishing, perhaps half the size when first examined, it increased one third As she was failing and the diagnosis was as complete as it was possible to make it, it was decided to perform nephrectomy

There are some points of importance in the case The drainage tube that went into the pelvis of the kidney gave free exit to quite a quanity of urine I think that most of the secretion from that kidney came through the drainage tube, it was sufficient to wet thoroughly in two or three hours a large dressing, this dressing was sufficient to keep the discharge from the wound pure so that there was nowhere decomposition of pus so far as the outward manifestations were concerned It struck me that if this drainage tube from the diseased kidney gave exit to such an amount of urine, and at the same time there was a good flow of urine from the bladder, it was a fair indication that the other kidney was not diseased, and that success would attend the removal of the diseased kidney, and it was decided to do the operation

Sixteen days ago the operation was done patient was prepared in a certain way that I have Upon the usual attempts at palpation followed in reference to all patients upon whom I do what is considered a serious operation, and I think it has a certain influence in preventing shock. Two or three hours before the operation is performed

the patient is given gr v to x of quinine, and gr 1/4 of morphine This medicine was administered to 1t, and as was expected, found pus As it presented the patient of whom I am speaking, and the opera-

tion for the removal of the kidney was performed The whole proceeding from beginning to end occupied an hour, and she went to bed without any manifestation of shock, and with a pulse of 112 had no rise of temperature until the second day, and then it rose to 100°, subsequent to that it fell to normal and did not rise above normal until the first incision and half way between the crest of the twelfth day, when other symptoms appeared ing all this time the wound was absolutely aseptic It healed promptly by first intention, so that on the seventh day all stitches were removed, the wound was solid from one end to the other

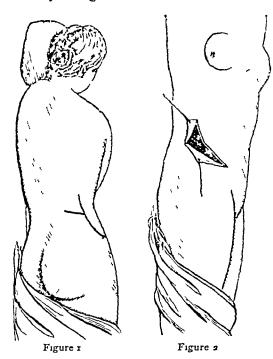
There are some points about this operation to which I desire to call your attention, and I will pass the specimen around to show the nature of the You will see at the lower end a cavity, which was found to contain six or eight ounces of pus, there is another cavity in the interior of the kidney, the pelvis is entirely destroyed and filled up with adventitious material

Here was an operation to be done upon a mod erately sized woman for the removal of a tumor containing pus, a tumor which reached up under the ribs, down to the crest of the ilium, and forward to the anterior spinous process There was a tumor containing pus in which large pockets had formedwhat was the best way to remove it? There is no question in my mind that the best operation, in general, for the removal of the kidneys is the posterior However, there are many diseases for operation which this operation is done where it is impossible to do it in another way than by the anterior operation, such as cases of cystic degeneration where the tumor is so large that it cannot be extruded posteriorly, but here was a tumor of moderate size, containing pus, in which it was desired above all things to avoid getting into the peritoneal cavity, a tumor which had sacs, the walls of which were in moderate incision was made the tumor presented itself, the degrees of thickness and strength, but could easily be broken upon pressure

Therefore, the day before the operation I took a cadaver and experimented upon the lines of incision which would best expose this tumor and give I finally decided upon the incisions represented in Figure 1 This represents the patient lying upon the opposite side from the diseased In these experiments I found that by a certain incision I could get the amplest room without doing injury to the colon or peritoneum, certainly no more likely to injure the colon, the peritoneum or other contents of the abdominal cavity than in an operation for the exposure of any of the large blood vessels of the abdomen

It is hardly necessary for me to state that there is some little difference between subserous tissue in the lower portion of the abdomen and that of the In the lower portion it is very loose and easily separated, whereas at the upper portion it is large cavity but the track of the drainage tube quite thin and the peritoneum is more apt to be torn, hence more care should be used in an operation | me, of the safety of the posterior incision for tumors in this position cision is supposed to be two inches above the an- carried out, somewhat in the way here indicated terior superior spine of the ilium curved direction downwards and backwards to the days ago this patient was taken with symptoms of

last rib The incision is carried through all the tissues, down to the fascia transversalis, everything is carried forward out of the way, and with the finger the dissection can be made, well behind the tumor. all the parts are separated, then a straight incision is made through all of them, straight back from the ilium and the last rib The introduction of a ligature at the point of the posterior flap, and pulling aside, there is a wound one can get both hands into and by exposing the kidney in all its parts, reach the tissues which one wishes to have under control, without difficulty Figure 2 In this case as soon as the



finger could be carried around it in all directions so that the kidney with its blood-vessels, ureter, and all could be exposed to view

I desired to adopt the plan, which is a good one to adopt in all tumors that are difficult to reach, of diminishing the size of the tumor, and attempted to divide it in halves by the cautery, but after a few strokes of the knife I approached a pocket of pus, and gave that up for fear of infecting the wound had very little difficulty by taking an eyed probe, threaded with a stout double ligature, in passing the probe through the centre of the pedicle, and then with the double ligature ligating it in halves ligatures controlled the circulation perfectly vessels in the exposed stump were picked up and ligated one by one as a special security was perfect, and the anterior wall of the peritoneum fell easily into place and united by primary intention At the end of a week there was nothing left of this

This case is an important illustration, it seems to The commencement of the in- of considerable size, where the line of incision is It is carried in a The saddest part of my report is to come

cerebral trouble and suppression of urine, and she died with all the symptoms of uremia this afternoon at I o'clock, sixteen days after the operation yet a satisfactory examination has not been made to determine the condition of the opposite kidney, been submitted to examination, but none have shown tubercular bacillus

The post mortem examination showed a highly congested swollen organ in the remaining kidney, the capillary vessels were ruptured in many places

LOCAL MASSAGE FOR LOCAL NEURASTHENIA

Read before the Section for Clinical Medicine, Pathology, and Hygiene, of the Suffolk District Medical Society, November 9, 1887

> BY DOUGLAS GRAHAM, M D. OF DOSTON MASS

Neurasthenia, as I understand it, may be either general or local, affecting the nerves or nerve-cells of all, or any part of the cerebro spinal or sympathetic system Its manifestations are those of exhaustion or too easy exhaustibility of nerve force, and its pathology, malnutrition of the nerve cells, in volved with concomitant instability of their circulation in the form of anemia or hyperemia, or alter It predisposes to, it accompanies, nations of these it results from disease, the nervous shock and the tedious recovery from injuries point to other sources, and it may be caused by overwork, worry or sheer The agreeable fatigue after a satisfactory day's work, that insures sound sleep, may be regarded as a healthy form of neurasthenia, if the Hibernianism may be pardoned

It is a matter of common observation, that those who are compelled to hard manual labor, seldom suffer from nervous prostration, and amongst the more fortunate who may be predisposed to neurasthenia, those who are deeply interested in some hobby or occupation that keeps mind and body active, have found the best means of prophylaxis The same means that serves for its prevention, also supplies us with a clue to one of the most valuable agents that can be employed for its relief in recovery cise keeps the circulation active, but requires effort of brain, spinal cord and nerves, as well as muscles, at a time when our object may be to afford rest to one or all of these parts of an overtaxed nervous Massage supplys this want, and will keep the circulation going with a minimum or no expendiheart, and afford it rest also Nay more, for it is getting to be the fashion not only amongst the laity, but also with some physicians, to say that massage imparts energy to the patient, though I confess I do not exactly understand what this means Certainly, many who submit to massage feel much more vigorous, light, and supple after even the first application than they did before it

ing the equilibrium of their forces, by facilitating the circulation of blood, lymph, and the transmission of nerve-force?

I have previously stated elsewhere that in cerebral exhaustion the relative value of massage was almost neither has there been a satisfactory microscopic | mil, and that out-of door exercise was of paramount examination of the tumor Several sections have importance, but I have since found reason to modify this in favor of more massage and less exercise such cases, massage of the head alone daily, or every other day, is better than applying it all over the patient, unless there be a rare idiosyncrasy that will not allow the head to be manipulated

There are people, not a few, who, when using their brains, suffer from uneasy sensations in the lumbar or dorsal region, and these discomforts continue after the cessation of study, causing wakeful-Generally, there is also some spinal irritation In such cases, massage of the in the region affected back alone will often induce sound sleep, and, next day, the patient feels inspired with faith, hope, and courage, in place of doubt, dread, and fear of meeting appointments With these cases a much more marked effect is produced by local than by general massage, except when the tenderness of the muscles and spinal irritation is extreme, unfitting them for every kind of work, and the massage should be general, omitting the back at the first seances, but gradually approaching it at subsequent ones

In other cases of what may be called local neurasthenia, if the term can be allowed for this purpose, such as writer's cramp, or the cold, small, and feeble muscles resulting from injury, disease, or disuse, massage and exercise, carefully adapted, have given excellent results To these have recently been added another affection, namely, laryngeal cramp of musicians and speakers, for the local treatment of which electricity and massage are considered the most effectual measures

It is not the purpose of this paper to go into the details of applying massage, nor to consider its minute effects, but I think it will be a revelation to many to experience either in their own heads, or to observe in those of their patients, the light, comfortable, delightful feelings that are produced by the resistance of a skilled manipulator to forward, backward, and lateral movements of the head impression is that the interior of the head has been benefited, and the effect is hardly secondary to mas sage, which rather gives the impression that the exterior has been improved

The following cases seem to me sufficiently worthy of notice as examples of the conditions mentioned

Case I—A J, 23 years of age Three years ture of nerve-force from the patient, and deep prior to my being called to him, he had been running massage without friction will lessen the beats of the races at college at the same time that the functions of his brain flagged, and study had become so irksome, producing headache and insomnia, that he gave it up for a year At the end of that time he returned to college for a year, and, to use his own words "patched up and graduated," and for the year before I saw him he had been trying to recuperate by resting at home At this time, even walking But may not this rather be sometimes produced discomfort in his head owing to rousing of their latent energies, and restor- first visit he had been suffering from headache, with tol-

erably acute pains in the external branches of the fifth pair of nerves, and had but little sleep for four The immediate cause of this had been too much conversation with friends on the evening of a holiday Massage of twenty minutes to the head alone, in the evening, almost relieved the headache and neuralgic pains, and was followed by an excellent night's sleep After this massage of the head, with resistive movements to the muscles of the neck, was repeated seventeen times in twenty-four days, and the improvement in sleep, in comfort of the head, and in the power of using his mental faculties was so from headache, which caused him to be out of his great, that it became a serious question whether he should not abandon a six months' sea-voyage that he had engaged Marks of improvement that may be mentioned were, that when he had an occasional wakeful night, he felt no worse on the following day, he had none of his former anxiety in taking charge of massage of the head on three successive days, and his class in Sunday School He attended a large party late one night without any after effects, and he being manipulated, and for a short time afterwards walked about freely, and all while he was preparing for an absence from home of six months or a year Medicine had been laid aside before massage was 1ed in this case

Case 2 —Rev D L, aged 66 years, has a good appetite and is well nourished, weighing about 180 For twelve years, he had suffered much from wakefulness He requires from eight to nine hours of sleep, but seldom got more than five or six hours of broken, unrefreshing slumber At times he would fall asleep soon after retiring, to wake up in a short time, at others, he would lie awake for hours before getting to sleep Besides discomfort about the head, he had still more distressing dull ache and uneasy sensations in the lumbar region, aggravated

by study or wakefulness

He found some relief from giving up his ministerial duties ten years before I saw him He came to me on the 25th of January of this year, and after thirtyfive minutes of massage on his head and back at noon time, he passed the remainder of the day in comfort, and that night and the following had seven hours of sleep each, so that when he came to me on the second day after massage he was hopeful and Massage was repeated at II A M on head and back, with increase of comfort to the patient He did not sleep so well the following night as he did the two preceding nights, but he realized that he was quiet and serene, and feit that he was resting, and next day was refreshed This day he had a re freshing sleep of an hour and a half in the after noon, which he never could obtain before when well, and that night slept steadily for seven or eight hours This patient had massage three times weekly, at or near noon, for seven or eight weeks, and the result of the first week is a fair average of the succeeding Five good nights of sleep out of six, with a nap of an hour or two in the afternoon, and when wakeful, he felt that he was resting, and, the following day, was not miserable from loss of sleep, as before massage, vigor of body and mind gradually increased, and he could take part in lectures, sociables, and other evening entertainments without loss not feeling compelled to do anything Saturdays of sleep, as formerly Mild tonics and stimulants and Sundays were her poorest days, and a vacation

always made this patient worse An epiphora that had troubled him for many years disappeared under massage of the eyelids

Case 3 -Mr E B, 35 years of age, had been in good health for several years, and attended to his business, which involved great detail, from 9 A M to 6 PM, with an hour off at noon for lunch He had remained in the city all the previous summer, and felt very well when he went away for a vacation of several weeks to Colorado, returning on November From the time of his return he began to suffer office several hours daily, and, by the end of three weeks, this became suddenly so much worse that he was obliged to leave his office altogether was a slight elevation of temperature, but still he had a good appetite, and slept well I gave him the headache was relieved only while the head was When massage was being done on the right side of the head, the ache would disappear and increase on the left side, and, on doing both sides they were relieved, and the ache increased in the back of the head, and on masseing the back of the head, the dis comfort would disappear from there and increase in the forehead, and, on manipulating this region, it would disappear altogether for a time. In other cases, I have chased pain in this way all over the patients without being able to dislodge it completely, only temporary relief being afforded at the place of

application

Case 4, will serve to show still farther that it is not always well for those who are inclined to nervous exhaustion to give up their employment when working easily, and go away on a vacation Miss M P, 34 years of age, teacher in a High School, had been subject to headaches all her life Her parents had highly nervous temperaments One year before I first saw her, the headache had been so severe that she was confined to her bed for seven days with pains all over her, and elevated temperature, and since then, the headaches have been more frequent and more severe than before, and usually accompanied with nausea and vomiting Evidently the case was one of migraine The ache was on the left side of the head, in the left eye, and more especially over the left tempero parietal region, accompanied with a crawling sensation at the back of the head, and soreness of the muscles of the back of the neck The left side of the face was smaller than the right She had great weariness and weakness in her aims, so that it tired her even to raise them cervical and upper dorsal region, there was much tenderness on pressure over the spinous processes Her appetite was good, bowels regular, and she slept Notwithstanding the increase in frequency and severity of headaches for a year, she had gained in weight, mainly adipose, so that she weighed 160 pounds, her ordinary weight being 123 pounds She continued her duties as a teacher, and found that she felt better when occupied in this way than when

of two months in the South ten months before she a very short distance at a time came to me was of no apparent benefit to her, but, she thought, made it all the harder for her to begin her professional duties again Correcting examination papers fatigued her more than anything else She could walk three or four miles with case

The first massage of thirty minutes on the head alone left this region "perfectly comfortable" until the second massage was repeated, two days later, when this comfort was extended to the manipulated regions-head, neck, arms, and shoulders-and a burning sensation between the shoulders was also In four weeks, a continual wooden, numb sensation of the left side of the head was not only relieved temporarily, but did not return, and, cor responding objectively to this, her tough, indurated scalp had become soft and supple Sixteen days after she came to me she could not stand, and had an account of weak and uneasy sensations in the back of her neck, as if her head would drop back wards when she attempted to hold the book, but she could sit and read with case This was at the catamenial period, when she was generally worse in But, two days later, she was much sur every way prised to find that she had recuperated more quickly, and to a greater extent, than ever before This patient had massage twenty five times in ten weeks, with increasing improvement, and this continued after treatment was omitted, so that she was practic ally well-sufficiently well to enjoy her summer vacation, which helped to confirm the benefit previously received Six months later, she reported that she had continued quite well The following spring her troubles returned in the same way, but less severely than formerly They were speedily re moved by massage, and stayed away for a year, when, again, there was a slight relapse, and more speedy recovery under massage At times, she had found nux vomica more beneficial than any other internal remedy, but even this had lost its effect before massage was tried

Case 5 -Mr J B, aged 33 years, has always been a nervous man He often felt fatigue in the lumbar region, but this he regarded as a matter of course, and he was always capable at business until six years before I first saw him At that time he was in an elevator which was being tested against sudden falling by means of some "suie patent preventive" The experiment failed, and the elevator fell eighty feet with six men in it While descending, our patient sat as tailors do, hoping thereby to diminish the shock of stopping He got out apparently none the worse, walked four squares to his newspaper office, for he was then an editor, and dictated an ac count of the accident He stayed at home for five or six weeks, but was not confined to bed After evening, the region of the spine was painful, but rehef was often found by pouring cold water upon it, at other times, from very warm water During va cation he was perfectly well, and played lawn tennis

Conversation and reading quickly tired him, and part of either would escape his attention A few hours at business would cruse nrusea and headache, and make him feel generally used up Appetite, bowels, and sleep normal

At my first interview there was much tenderness on pressure over the spinous processes and muscles of the back, but, after three massages in nine days, they could be manipulated quite vigorously six massages in eighteen days, he was practically as well as ever Manipulation was exceedingly agreeable to this patient, and, while it was being done on either leg or hip, the agreeable sensation was felt in the back and in the other leg and hip, as well as at the seat of application About once a year, usually in the fall, after his vacation, this patient finds himself used up, as just described, and he has learned by experience to rely on the prompt relief afforded by massage He has also found wine of coca of some I have frequently made similar cases worse by using massage too vigorously to begin with

Case 6 - When Mrs M W came to me in October, 1884, she was 58 years of age, and weighed 213 1/2 pounds Her adipose tissue was supple and of good consistency She had then been suffering for three years from a continual, distressing feeling of weakness in the right leg and thigh, which first made its appearance when there was some enlargement of the internal saphenous vein, but this had long ago dis-On examination, the whole limb seemed normal in every respect. The patient was not at all of a nervous, hysterical, or imaginative temperament, having been at the bombardment of Fort Sumpter, once in a steamboat explosion, and once made a long voyage in a vessel with the cargo shifted, so that there was imminent danger of the vessel upsetting, besides having travelled twice around the world

A walk of a square was as far as the patient could go with comfort, and a walk of one fourth of a mile caused great fatigue and increased the feeling of weakness She had tried absolute rest for one, two, and three months at a time, during which she lost flesh, but the limb did not improve At my request, she omitted potatoes, sugar and butter from her diet and began walking for two minutes every hour during the day, which was increased daily one minute Massage was given to the leg, thigh, every hour and hip three times weekly The first time it comforted and rested the limb, and after this passive and resistive movements were also given, which at first tired the limb, but this was at once counteracted by manipulations At the end of two weeks she could walk half a mile without fatigue—twice as far as she could before with great fatigue-and a distressing pain that previously came after slight exertion at the exit of the sciatic nerve had not been felt for a week this he resumed his duties, but it was eight months At the expiration of four weeks the patient walked before he could walk a mile For a long time in the a mile and a half with ease, feeling but slight general fatigue thereafter, and the limb that had been weak was not so tired as the other It was by her own wish that massage was repeated occasionally for a few weeks longer, and she has continued well ever For three weeks before I saw him he had suffered since Under the restricted diet she lost 7½ pounds, from pain in his back and legs, and could walk but and no doubt but this aided her recovery

erably acute pains in the external branches of the always made this patient worse fifth pair of nerves, and had but little sleep for four had troubled him for many years disappeared under The immediate cause of this had been too much conversation with friends on the evening of a Massage of twenty minutes to the head alone, in the evening, almost relieved the headache and neuralgic pains, and was followed by an excellent After this massage of the head, with night's sleep resistive movements to the muscles of the neck, was repeated seventeen times in twenty four days, and the improvement in sleep, in comfort of the head, and in the power of using his mental faculties was so great, that it became a serious question whether he should not abandon a six months' sea-voyage that he had engaged Marks of improvement that may be mentioned were, that when he had an occasional wakeful night, he felt no worse on the following day, he had none of his former anxiety in taking charge of his class in Sunday School He attended a large party late one night without any after-effects, and he walked about freely, and all while he was preparing for an absence from home of six months or a year Medicine had been laid aside before massage was in this case

Case 2—Rev D L, aged 66 years, has a good appetite and is well nourished, weighing about 180 For twelve years, he had suffered much from wakefulness He requires from eight to nine hours of sleep, but seldom got more than five or six At times he hours of broken, unrefreshing slumber would fall asleep soon after retiring, to wake up in a short time, at others, he would lie awake for hours before getting to sleep Besides discomfort about the head, he had still more distressing dull ache and uneasy sensations in the lumbar region, aggravated

by study or wakefulness

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Case 3—Mr E B, 35 years of age, had been in good health for several years, and attended to his business, which involved great detail, from 9 A M to 6 PM, with an hour off at noon for lunch remained in the city all the previous summer, and felt very well when he went away for a vacation of several weeks to Colorado, returning on November From the time of his return he began to suffer from headache, which caused him to be out of his office several hours daily, and, by the end of three weeks, this became suddenly so much worse that he was obliged to leave his office altogether was a slight elevation of temperature, but still he had a good appetite, and slept well I gave him massage of the head on three successive days, and the headache was relieved only while the head was being manipulated, and for a short time afterwards When massage was being done on the right side of the head, the ache would disappear and increase on the left side, and, on doing both sides they were relieved, and the ache increased in the back of the head, and on masseing the back of the head, the dis comfort would disappear from there and increase in the forehead, and, on manipulating this region, it would disappear altogether for a time cases, I have chased pain in this way all over the patients without being able to dislodge it completely, only temporary relief being afforded at the place of

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she felt better when occupied in this way than when

muscles, restoring natural sensation and motion, massage may succeed when other means have failed

9 Deep massage without friction has proved of it is well marked more value in my hands than all other forms of mas sage put together, in the cases herein considered

10 Massage can be overdone, producing opposite

effects from a moderate application

11 Besides massage, carefully graded exercises at regular times, are valuable accessories in the restoration of motion

12 Massage is not the only means of treatment for neurasthenia. Its selection is usually decided upon after the failure or exhaustion of every other means, in the same manner that the shrewd old divine decided that it was not wise to let the devil have all the good times to himself

MEDICAL PROGRESS.

NERVOUS ORIGIN OF RHEUMATOID ARTHRITIS -At the meeting of the Royal Medical and Chirurgical Society, on November 22, DR ARCHIBALD E GAR ROD read a paper on this subject, of which the follow Some of the arguments which ing is an abstract have been put forward in support of the view that rheumatoid arthritis is a disease of nervous origin, are examined in the light of a large number of cases The statistics given are based upon a series of 500 Arguments are adduced in support of the following propositions 1 That the causes of rheumatoid arthritis are such as might be expected to act upon the central nervous system 2 That the distribution of the lesions is such as would be likely to result from nervous lesions 3 That the distribution of the lesions is similar to that of certain arthropathies of spinal origin. The influence of heredity is first discussed In 216 cases out of 500, there was a family history of joint disease, sometimes of more than one variety There was a history of gout in 86, of probable gout in 10, of rheumatism in 64, and of other conditions which may be classed together as probably rheumatoid arthritis in 84 These figures can only approximate to accuracy as they are based upon information given by the patients The influence of uterine causes is next discussed, and it is shown that when the female cases are arranged according to the age of the patients when the disease commenced, there is a steady increase in numbers up to the period of the menopause and a steady decrease after that Amongst the male cases there is no such regularity Of the 500 patients 411 were women, and only 89 men The influence of anxiety and care, mental shock, injuries, damp, cold, and previ ous rheumatic attacks, are discussed, and each of these is shown to have a share in the causation of Stress is laid upon the extreme sym and some examples are adduced given for believing that there is a tendency for the tures, sutures and dressings

8 For improving the nutrition of nerves and joint lesions to advance up the limbs from the periphery towards the trunk This order of invasion is by no means constant, but in particular instances In the localized form of the dis ease, it is, of course, absent The knees rank only second to the hands in liability to rheumatoid arthritis Lastly, it is shown that there is a close resemblance between the distribution of the joint lesions in rheumatoid arthritis and in the recorded cases of arthritis following spinal concussion, whereas in more local spinal injuries one or more large joints are usually affected, as in tabes dorsalis sociated nervous phenomena, such as muscular wasting, increase of tendon reflexes, etc, are regarded as secondary to the joint lesions, and as therefore lending no efficient support to the theory of the nervous origin of rheumatoid arthritis Dice Duckworth agreed with the views expressed in the paper The morbid anatomy of this disease required very much more investigation than had at DR ORD had been interested present been given in this subject for many years The joint troubles were to be regarded rather as symptoms than as the whole disease He came to the conclusion that nervous influences had a great deal to do in the causation of this disease He believed that nervous influence was reflected from the uterine organs to the spinal cord and on to the joints also exerted a primary influence Injury might lead to a joint affection, and then the nervous system tended to propagate the joint change to other joints He compared rheumatoid arthritis to progressive muscular atrophy In a case of chronic cervical pachymeningitis there was much muscular and cutaneous wasting, and later a remarkable degree of chronic osteo arthritis developed In another case of spinal injury joint trouble followed at a long interval the muscular wasting DR Buzzard said that in association with Charcot's disease of the joints there was a much clearer evidence of disease in the central nervous system than was the case in rheumatoid arthritis He alluded to the various crises and paroxysmal secretions occurring in tabes dorsalis as evidence of the involvement of the central nervous in most cases Eight years ago he promulgated the theory of a joint centre in the medulla oblongata, and he brought forward arguments to show that acute rheumatism might be an acute affection of the medulla oblongata DR HERRINGHAM alluded to the belief which he shared that cold and damp were very potent causes of rheumatism and rheumatoid arthritis DR GARROD, in reply, said that he should have classed Dr Ord's case of myotrophy as one in which the arthropathy was due to definite nervous lessons, and therefore not of the same category as rheumatoid arthritis - Lancet, Nov 26, 1887

PLASTIC SURGERY --- MR C B KEETIEY says It will be granted that all parts of the body are susceptible to septic inoculation, therefore one of the first rules of plastic surgery should be Thoroughly metry of the joint lesions in rheumatoid arthritis, disinfect the parts to be operated on, the hands of sur-Reasons are geon, assistant and nur se, the instrument, sponges, liga-

Case 7 —Miss E H was 39 years of age when I attended her in the winter of 1883-84 She is irregularly astigmatic, and suffers from headache, and this ing the last eight or ten days of treatment, it became is worse at the menstrual period, which recurs every three weeks and a half, accompanied with pain She suffers much at times from indigestion. She is a lady with a strong mind, a clear intellect, an unwearied conversationalist, and, in the language of her physi cian, who sent her to me, "she is a preeminently hyperæsthetic subject, and would be hysterical, did not mous and digestion good the brain govern the cerebium abdominale" For five years she has suffered with a pain in her right knee, impairing locomotion, and the latter part of this rightly, that massage had given her a start, and imtime there was pain also in the outer and posterior aspects of the thigh, where the muscles were considerably atrophied—so much so that her other discomforts seemed small in comparison with those of the well, there are few, if any, who have not some weak The trouble in the limb came when she was run down from nursing a sick relative, and coincident with this a severe cough that had been increasing every winter disappeared, and did not return ing these five years under rest, with and without fixed at 2 PM, and another half-an-hour's massage on same dressings, changes to country and seashore, the use of tonics and sedatives interally and blisters externally, there would be sometimes a little improvement in the knee, but always followed by speedy relapse on slight or no provocation, such as accidentally hitting it against something, or being obliged to use it a little more than usual. At times the pain was relieved by walking, at others made worse. It was aggravated by cold weather and by riding in a carriage

Examination showed that the affected limb was much smaller than the other, the skin cold and dry, the muscles atrophied, but there was nothing especially noticeable about the knee, save slight puffiness and great tenderness on pressure upon the internal Owing to pain and weakcondyle, not in the skin ness, which were aggravated by walking, she could take but a few steps when massage was begun, and the only symptom then in her favor was steady sleep Massage was applied three times a week for eleven weeks and a half, being omitted for a few days at one time on account of unusual pain in back, stomach For the first four weeks, massage, and intestines with gradually increasing exercises, was confined to the affected limb, with the result that she was at the end of this time taking four walks daily of ten minutes each, besides exercises of standing on tip toe, stepping up two steps at once, holding the limb out extended, and elevating it sideways when lyirg down From the first the skin became warmer, softer and suppler, and the muscles fuller, as shown by an in crease of one-half inch around the calf, one fourth inch at the knee, one-eighth inch three inches above the patella, and one fourth inch seven inches above may not be restless nor feel the loss of sleep on the the patella When treatment was discontinued these following day gains were one-half inch, five eighths, three-eighths, and seven-sixteenths, respectively But at the end | massage of four weeks the pain was still about the same, notwithstanding the improvement in locomotion, nor had it entirely disappeared when massage was given up

As soon as she made known the heart and abdominal troubles, massage was applied for ten minutes to massage, improvement may yet go on after massage each of these regions also, which was during the last has been discontinued

seven weeks of treatment Headache was improved, sleep became more refreshing, digestion easier Durevident that, though the patient was much better, and could go about much more freely on foot and in a carriage, she had come to a stand-still, and consequently the treatment was terminated rather sooner than she wished A year later I saw her and she was the picture of health Her appetite was enor-She had gained many pounds in weight and could walk freely, but still suffered from headache She considered, and I think provement had continued since it was omitted, for no other treatment had been used

Amongst people who may be considered perfectly When fatigued or worned I suffer from tension and dull ache throughout my whole right side In September, 1884, when in Paris, I had one man give me half-an-hour's massage on my right side only, The manipulation was slight, superside at 5 P M ficial and rapid and at the time of its being done seemed very meffectual But that night I never slept so sound in a railroad train in all my life, as I did from Paris to Calais, and while crossing the channel I was not even sick Two days later I played deck quoits all one afternoon when the thermometer was 80° in the shade and the ship rolling. Next morning my playmates could scarcely get out of their berths, they were so stiff and tired, and so was I, but the fatigue was all confined to my left side and not to the right as formerly

It may be said that these were not very sick people, but they are cases that prove troublesome to physicians, and they were certainly in conditions which any one of us would gladly be freed from is not necessary that I should dwell upon extreme cases of nervous prostration that have been treated by absolute rest, forced feeding, massage and elec-I could give further details of the other mentioned cases and also of similar ones which would seem to justify the following conclusions

That massage induces sleep

That even when massage is applied in the forenoon its soporific effects may not disappear before bedtime, though in general the later in the day massage is used, for promoting sleep the better

3 Disagreeable feelings of drowsiness and languor do not necessarily intervene between massage in the Aptitude for forenoon and sound sleep at bedtime rest or work generally follows massage

4 When people are wakeful after massage they

5 Spinal irritation is relieved or disappears under

6 For local neurasthenia there is no need of general massage, unless the whole system be secondarily ınfluenced

7 When affections have come to a stand-still under

THI

Journal of the American Medical Association Published Welkly

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor

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SATURDAY, JANUARY 7, 1888

MEDICAL LEGISLATION

In continuing the discussion of this subject from page 815 of The Journal for December 24, 1887, we cannot express more concisely our views regard ing the proper standard of medical education that should be required for a license to practice medicine, than by quoting the third section of the law now in force in Minnesota, with the interpolation or addi tion of two or three lines enclosed in brackets, as "Sec 3 All persons hereafter commencing the practice of medicine and surgery in any of its branches in this State, shall apply to said Board for a license so to do, and such applicant, at the time and place designated by said Board, or at a regular meeting of said Board, shall submit to an examination in the following branches, to wit Anatomy, physiology, chemistry, histology, materia medica, therapeutics, preventive medicine, practice of medicine, surgery, obstetrics, diseases of women and children, diseases of the nervous system, diseases of the eye and ear, medical jurisprudence, and such other branches as the Board may deem advisable, and present evidence [of having studied medicine three years, including] attendance on three courses of lectures of at least six months each, [and two courses of clinical instruction in a general hospital containing an average of not less than fifty patients], said Board shall cause such examination to be both ser entific and practical, but of sufficient seventy to test the candidate's fitness to practice medicine and sur-When desirable said examination shall be conducted in the presence of the Dean of any med

of this State After examination said Board shall grant a license to such applicant to practice medicine and surgery in the State of Minnesota, which said license can only be granted by the consent of not less than seven [of the nine] members of said Board, and which said license shall be signed by the President and Secretary of said Board and attested by the seal thereof. The fee for such examination shall be the sum of \$10, and shall be paid by the applicant to the Treasurer of said Board, to be applied by said Board towards defraying the expenses thereof—and such Board may refuse or revoke a license for unprofessional, dishonorable or immoral conduct."

With such a standard of preliminary general education for the medical student as we suggested in THE JOURNAL of December 24, 1887, and the foregoing section of the Minnesota law with the amendments in brackets, enforced by a competent and impartial State Board of Examiners, in each State, there would speedily follow a marked improvement in the educational status of the profession, and a corresponding diminution in the number of both medical students and medical schools But the actual permanent benefits to be obtained from the creation of such legal standards of education for the medical profession will depend very much upon the competency and faithfulness of the several State Examining Boards Consequently the questions, by whom shall such Boards be appointed, what shall be the qualifications necessary to render any person eligible for appointment on such Boards, and to whom shall the members of such Boards be responsible for the proper performance of their official duties? present more difficulties in arriving at satisfactory answers than in adjusting any other details connected with medical legislation We will therefore reserve a more full discussion of these questions until next week

THE NEXT MEETING OF THE ASSOCIATION

Four short months intervene between the present and the time for the next meeting of the American Medical Association. While the steady growth of the Association promises success for its future, the necessity is as imperative as ever that the officers and members should cooperate each year to make the annual meetings as successful as is possible from a scientific standpoint, and as harmonious and pleasureable as possible from a social standpoint.

conducted in the presence of the Dean of any medical school or the President of any medical society

The number of papers has greatly increased during the last few years, and especially since The local school or the President of any medical society

JOURNAL was founded

In many Sections more are

offered than can be read While, therefore, there is no dearth of material, experience has demonstrated that the value of the papers presented to the Sections depends chiefly upon the thoroughness with which their officers canvass the best authors and observers for contributions following heads, vizing the following heads, vizing the stablish positively in the results of real values of the results of well discovered by the results of well discovered by the facts on any

Since the number of papers are annually increasing all that contemplate presenting contributions should study to make them concise and to the point The following rule of the Association must be borne in mind "No paper shall be read before either of the Sections, the reading of which occupies more than twenty minutes" Longer papers may be read It must also be remembered that "it shall be the duty of any member of the Association who proposes to present a paper or report to any one of the Sections to forward either the paper or a title indicative of its contents and its length to the Chairman of the Committee of Arrangements at least one month before the annual meeting at which the paper or report is to be read " And further "It shall be the duty of the Chairman and Secretary of each Section to communicate the same information to the Chairman of the Committee of Arrangements concerning such papers and reports as may come into their possession"

Regard for these rules is necessary in order to give the Chairman of the Committee of Arrangements time to prepare the annual programme, to arrange the order in which papers are to be read, and to have the programmes printed for distribution at the beginning of the meeting. In times past papers have been crowded upon the programme during the month preceding the meeting, but many are annually disappointed because they send their papers too late

The next meeting will be held in Cincinnati, and will begin on the second Tuesday of May We can safely prophesy an unusually large and successful meeting, for the central location of Cincinnati will make it easy of access from all directions. The city itself offers many attractions to strangers and the Committee of Arrangements, with its able Chairman, Dr. W. W. Dawson, of that city, will make every possible arrangement for the comfort and pleasure of the members in attendance.

We would also call attention to the following rule of the Association regarding papers to be read in the Sections

Resolved, That the several Sections of this Association be requested, in the future, to refer no papers or reports to the Committee of Publication, except such as can be fairly classed under one of the three between 5000 and 6000 ohms

following heads, viz 1st Such as may contain and establish positively new facts, modes of practice, or principles of real value 2d Such as may contain the results of well devised, original experimental researches 3d Such as present so complete a review of the facts on any particular subject as to enable the writer to deduce therefrom legitimate conclusions of importance (Transactions, Vol 16, p 40)

Members are also requested to note the fact that the Committee of Publication is vested with discretionary power in the preparation and publication of the matter referred to it by the Sections for publication

ELECTRICAL RESISTANCE IN THE HUMAN BODY UNDER PATHOLOGICAL CONDITIONS

That the body offers considerable resistance to the passage of electrical currents is well known. And that much variation in this resistance exists in different individuals, and even in the same person at different times, was long ago demonstrated. This variability is known to be due in part to the use of currents of different strength, of electrodes of different sizes, to variations in the moisture or dryness of the skin, to the thickness of the skin, to the distance apart of the electrodes, etc. In making comparisons of the resistance in many persons much care must be taken to eliminate these various sources of error

Very few observations upon persons in a pathological condition made with accuracy have been re-A year ago Charcot called attention to the corded fact that electrical resistance in the body was constantly lessened in Grave's disease and in certain cardiac affections, notably asystolism, (Gaz des These observations of Hospiteax, 13-15, 1886) Charcot have led R Norris Wolfenden (The Practitioner December, 1887) to make most careful investigations of the same kind upon Grave's disease and less extensively upon others To eliminate sources of error he used uniformly the same electrodes, placed upon the same part of the body in each case, te, on the nape of the neck and on the He tested with the resistance top of the sternum coil his current so that he had one of uniform meas-In this way he tested the resistance in ured strength fifty healthy persons and found it between 4000 and 5000 ohms with a current of 15 volts cases of undoubted Grave's disease he found this resistance to vary between 500 and 1500 ohms This fully coreight of these it was 1000 or less roberates Charcot's observations In ordinary goitre the resistance is not lessened, but was found to vary

In one case of malignant disease of the thryoid it was found to be 8000 In some cases of hemiplegia it varied from 1300 to 4000, in the same number of cases of epilepsy from 1000 to 4000, in three cases of cerebral softening it was 3000, in two cases of paraplegia it averaged 3000, in one case of gen eral paralysis 6500, in one case of infantile paralysis 2600, in a case of hystero-epilepsy 1600 ohms, and in one case of chorea in an adult it Dr Wolfenden further noticed that a current of only two or three volts would in Grave's dis ease produce marked deflection of the galvonom eter needle, with such a current no deflection would occur in health The bodily resistance is therefore almost nothing in this disease Dr Wolfenden can offer no explanation of these changes

FOOD ADULTERATION IN ENGLAND -MR C E Cassal, the public analyst for Kensington, reports that of 499 samples analyzed under the "Food and Drugs Act" 28 per cent were adulterated, and 17 per cent of inferior quality, the greater part of the adul terated or inferior samples being specimens of milk The largest proportion of adulterated samples was from the Sunday milk, only 34 per cent of the sam ples being genuine The amount of fines for all this adulteration was only £37, knowing which one does not wonder at the extent of the adulterations

J K BARTLETT, M D, long well known to the profession as one of the oldest and most respected members of the profession in Milwaukee, Wis, has removed from that city, and taken his residence permanently in Berkeley, Cal His many friends and correspondents should make note of this fact The change of residence at this period of life was caused by the hope of benefiting the health of his family

SOCIETY PROCEEDINGS

PHILADELPHIA COUNTY MEDICAL SOCIETY

Stated Meeting, November 9, 1887

The President, J Solis Cohen, M D, in the

DR DEFOREST WILLARD read a paper on FOREIGN BODIES IN THE URETHRA AND BIADDER REMOVAL BY LITHOLAPALY EVACUATOR WITH LARGE, STRAIGHT, OPEN ENDED CANULA

bodies, the surgeon has to meet with a large amount itself. The forceps can be manipulated through its

of deception upon the part of the patient, when the object has been self introduced, and it is often impossible to obtain any reliable information either as to the presence of the foreign mass or as to its conformation In broken bougies the surgeon should, if possible, have the other remaining fragment in his hand for measurement, or else secure one of similar Any object of peculiar shape should be accurately described, or duplicated It must be remembered, that while a patient may confess to the introduction of but one body, there may be several The position in the canal must be thoroughly fixed In the ante scrotal region this is easily accomplished, and with the aid of a sound and a finger introduced into the rectum even the posterior urethra can be well examined, provided inflammation be not too severe When possible, no manipulations should be attempted for extraction without the body being firmly secured from further recedence Ether is of the greatest value, but cocaine injections may answer for urethral work

Treatment — About one tenth of inserted foreign bodies will be spontaneously expelled, but when the vis a tergo of the urine fails to wash out either a calculus or an object inserted through the meatus, the safest and surest plan is to attach to an ordinary litholapavy evacuator (Bigelow's or other improved pattern) a large, straight tube, which is open at both It contains a movable stylet for ease of introduction The size should be the largest that the urethra will possibly admit (after nicking the meatus, if necessary), say French No 29 or 30, American, No 19, English, No 16, for adults, children in proportion The possibility of the passage of the body through the tube should be determined, if possible, by actual trial, provided a similar piece can be ob-Rarely will any bougie larger than the above-named size be found in the bladder or urethra The method has been so satisfactory in my hands, as is proven by the collection of objects before you, that I always resort to it with confidence, to the exclusion of all other primary devices

If lodgement has occurred in the urethra, the canal must be firmly closed by finger pressure behind the object, while the metallic tube is slid down and carefully caused to engage the catheter or other mass within its calibre, when the bulb of the instrument is slowly compressed until the water has distended the urethra to its fullest limit, thus liberating the body, when suction is suddenly applied while the penis is stretched forward Urless the mass be firmly caught and imbedded in a pocket, this manœuvre rarely fails after a few trials The quantity of water that can be contained in the urethra is so small that the body may require two or three efforts to withdraw it the whole length of the instru-The water should be injected very slowly, but the suction current must be made forcibly spection of the rubber tube can be made through the upper opening without detachment of the cathe-Avoid employing forceps until unsuccessful with the above method, but when necessary to be Unfortunately for the safe extraction of these used, the superiority of the canula again asserts calibre, and if the object be compressible enough to pass the bore, withdrawal can be accomplished without the slightest injury to the mucous membrane Objects of larger size than this tube can seldom be withdrawn with safety by any method save cutting Hairpins can be compressed through the walls of the urethra, and their points passed into the calibre, when they can be completely pushed within the bore and easily withdrawn Beads, peas, pebbles, etc., will easily enter the canula by suction Catheters, wires, etc, will usually require the assistance of Barbed heads of grain can also be ensheathed and withdrawn by this device

evacuator becomes an even more essential aid straight instrument is not always easy of introduc- water tion, but the security gained against subsequent be located and the urethra closed, a large injection urethral injury abundantly repays for the trouble If a flexible or spirally cut obturator is used, the introduction is rendered much easier used first as a sound to discover the offending body, when the bulb of the evacuator is first slowly compressed, so as not to disturb the fragment Suction should always be made quickly, so as to draw the the spoon of the ordinary pocket-case can often be body with force with more energy, so as to move the fragment into better line with the calibre, suction being again rapidly applied. If the body is rounded, and of size that can pass the bore, it will in a few moments be found in the bulb If very long, like a catheter, or pencil, or wire, the chances are not so good that it can be brought into line with the calibre of the As a bougie ordinarily breaks at or near the eye, however, its passage is more than probable Failing, after ten minutes of gentle trial, a lithotrite should be introduced if the body is a bougie or pencil, and is capable of being cut or pinched in two, and the division made. If the bougie is old and brittle, as is presumptively the case, such division with a lithotrite is easily accomplished The segments can then be sucked out, and their total length carefully compared with the remaining portion or Every particle must be secured, lest it lost body form the nucleus of a future calculus Even the broken jaw of a lithotrite might be drawn into the lithotrite of Reliquet, as incision is infinitely safer If the surgeon has not the straight tube with open end, which I advise, he may use the ordinary straight evacuating tube

Necessarily only a small proportion of introduced objects can be removed per urethram, and I should lay it down as a rule, that any foreign body too large to pass the calibre of this No 29 tube, unless it be dicate the location of the obstruction and of the tube very soft and pliable, should be removed by lithotomy, either perineal or suprapubic Great care must dangers, but laceration is worse be exercised in the search, if the object be sharp-The inflation pointed, lest a perforation be made of the rectum, if epicystotomy be done, in order to lift the bladder, must be dispensed with if the object rest by its splint action The upper route gives more room, is sharp-pointed and while there is a slight risk of wounding the peri- lodged behind it, dilatation or free external incision toneum, yet we must remember also, in the extrac- of the stricture should be practised tion of large objects, as well as calculi, by the permeal route, that the rectovesical fold of the peri- from the urethra, the point can sometimes be im-

toneum is in close proximity to the neck of the bladder, and may not escape involvement in the subsequent inflammatory action

If the walls of the bladder were only of sufficient strength to warrant their immediate sewing with catgut or silk, and permit primary union under strictly antiseptic dressings, while the urine were drained off below, the suprapubic route would cer tainly be decidedly the better one, but for the present, we must be content to drain the suprapubic

In the absence of an evacuator, the expulsive force of the urine is often sufficient to dislodge a urethral If the object has passed into the bladder, the impaction, especially if the meatus is closed for a moment, so as to obtain the full dilating power of the Failing in this effort, if the foreign body can of sweet oil may be thrown in, after a hot bath, and the largest possible bougie carried down to the body The tube is to stretch the membrane, while pressure from behind is made either by the surgeon's finger or by the ex

pulsive efforts of the patient's bladder

Should lodgement be made in the fossa navicularis, Failing, the water is next ejected hooked behind the object and assist in coaving it A hairpin, or wire doubled upon itself and slightly bent, or a blunt curette, makes also a valuable extractor An excellent instrument also is the articulated scoop of Leroy d'Etiolles, which, being introduced past the foreign body, has a mechanism by which its tip is then bent at right angles to the shaft, and is capable of making strong but dangerous traction The abruptly short-beaked sound that I always use for sounding the bas fond of the bladder, can sometimes also be "wormed" past the obstruc tion, and effect its dislodgement Long urethral forceps are of great service, as they serve partially to protect the canal during extraction, but they do so far less effectually than does the straight tube be fore described, which should be placed in every evacuating set Hunter's or Civiale's three bladed forceps are occasionally used, but I always look with abhorrence upon dragging any object forcibly through A dangerous instrument is the urethral the canal for all rough and large bodies When the substance lies posterior to the triangular ligament, gentle attempts should be made to push it into the bladder, only after the evacuator has failed to dislodge it necessary to operate, the raphe should be closely followed, while a large staff is held in position to in-

> An incision in front of the scrotum is easily made, Lithotomy has its and should be closed after the removal of the body Treated antiseptically, by catgut or quilled sutures and with either a retained catheter, or with frequent catheterizations, immediate union may be confidently The quilled suture gives more perfect expected

If a stricture exists, and the foreign body is

For the removal of pin, bonnet pins, or needles,

and by sharply bending the penis, the head after reversal drawn through the tube by suction or by forceps It is seldom necessary to cut the pin when this method is used lost from a porte caustique, the evacuator, charged in cutting short the course of the disease with salt water, should be at once used if the force urmation does not expel the mass devices have been practised in the absence of instruments, to rid the urethra of impacted bodies, but the knife is far safer than rough instrumentation. In the absence of the straight evacuating tube, an extra sized catheter, with open end, and a large syringe, might prove useful

Blood clots in the bladder are practically foreign bodies, and are best removed by gentle suction through the curved evacuator, or through the blood catheter, which I here show, the large eye of which is closed down during introduction by a spirally cut

Catheter accidents are so frequent that instru ments should be often examined Only recently I found that the distal extremity of my much used pocket case instrument could be slipped from its screw thread by a very small amount of traction Old gum bougies should be thrown away as soon as vous system by the use of sedatives and tonics they begin to lose their elasticity

To summarize

- The litholapaxy evacuating tube, large, straight, and with open end, is the surest and safest instru ment for the removal of foreign bodies from either urethra or bladder
- to break up all bodies capable of division
- tear of the neck of the viscus or of the canal
- 4 The suprapubic and median perineal are the safest routes of entrance to the bladder when suc tion fails
- Forceps should be used with the greatest care, and always through a straight tube, which insures protection both to the urethra and neck of the bladder during both exploration and extraction

CHICAGO MEDICAL SOCIETY

Stated Meeting, November 7, 1887 THE PRESIDENT, W T BELFIELD, M D, IN THE CHAIR

Dr J A Robison read a paper on

THE TREATMENT OF PERTUSSIS

He said that since the discovery by Poulet in 1867 of a parasite which is probably the cause of whoop ing cough, the disease has been treated by the local application of such germicidal agents as carbolic acid,

bedded in a way or gum bougie, but it is easier is difficult to get children to allow the administration washed out with the evacuator If immovable, the of the drugs, but he had used with success a solupoint can be pushed through the walls of the urethra, tion of cocaine and resorcin in Semple's Atomizing Inhaler, the vapor being so fine that the drug is inhaled into the bronchial tubes without producing any laryngeal spasm This method of treatment had If a piece of nitrite of silver is been successful not only in relieving the cough, but

Whooping cough is a dis-DR F E WANHAM Many ingenious case for which a great many specifics have been advocated, but I really believe that we possess none Something over a year ago I remember reading of the fumes of sulphur as being a specific, coming from a high authority, I thought that we had at last found a remedy for this disease, but upon giving it a faithful trial I found it entirely useless, the patients manifesting no relief whatever And the same may be said of a great many other remedies that have been advocated as specifics As it is generally conceded that the disease is produced by bacilli found in the mucus of the throat, the larynx and the trachea, and that the peculiar cough is reflex in character, it certainly follows that there are two indications to meet in the treatment of the disease first, to destroy the bacilli as far as possible by means of germicides, as has been advised in the paper read, and second, to diminish the reflex excitability of the ner-

> DR G C PAOLI advocated the use of ergot in pertussis In 15 cases it cut short the duration of

the disease

DR ROBISON, in closing the discussion, said was very anxious to hear from the senior members of the profession in regard to their belief in the pa-2 The fenestrated hthotrite should be employed thology of the whooping cough, because on that depends the treatment I know it was formerly be-3 Incision of urethra or bladder is safer than a heved to be almost of a purely nervous origin, or at least of reflex origin, and was treated internally by quinine, belladonna, ergot and opium, and antispas-Of late years it seems to me that it has almost been proven that the disease is of local origin, and it does not seem that we can fully deny the observations of Poulet and Berger that they have found the bacillus of pertussis I mention the treatment by germicides because all of these observers have noticed that the cough was lessened, the disease shortened and the patients obtained relief by local treatment, no internal medication being given that disease is a purely local one, due to bacilli, by the use of antiseptics we remove the cause of the disease and the accompanying nervous symptoms, and relieve the cough I desire to ascertain the general belief of the profession Is the disease a purely reflex nervous one, or is it due to the parasitic germs? It is generally considered a self limited disease Japanese call it the one hundred days disease, and probably in three months it will wear itself out, but it seems to me that by the use of these remedies we can shorten it, and are thus doing a benefit to our In regard to the insufflation of boracic patients acid in the nostrils, I think that is an argument eucalyptus, boracic acid, sulphur, illuminating gas in favor of this local treatment, for boracic acid is These had been applied by inhala a potent antiseptic. Sprays have been used for a tions, insufflations and sprays, but in many cases it long time, but the difficulty is in spraying the lar-

The use of powders has been in vogue for a is not preferable as an anæsthetic to ether long time, but there is a difficulty in carrying out decided renal irritation caused by the latter may pos a treatment of insufflation of powder by means of a sibly be a considerable factor in provoking uræma powder-blower, although when blown through the in such cases, where the second kidney is suddenly nostrils there is a fine dust formed which is inhaled taxed with an extra burden into the lungs Boracic acid acts precisely as carbolic acid that is inhaled

THE PRESIDENT, DR CHARLES T PARKES, reported

A CASE OF NEPHRECTOMY

(See p 9)
DR D T Nelson I was very much pleased at the doctor's instructions in regard to preparing the patient for these serious operations, and I believe we have considerable to learn in that direction as yet The method proposed I believe to be valuable in preventing shock If it is not wandering in a field that does not apply to the paper I would like to throw out another hint, which is that we prepare the alimentary canal previous to these operations, if you choose, make it antiseptic or aseptic by emptying it and subsequently giving antiseptic drugs, preferably naphthalin in 5-grain doses three times a day would like to ask Dr Parkes if, in making the inci- necessary, for the purpose of diminishing the size of sion, he was careful to preserve the capsule of the kidney and use that in facilitating his drainage? have had but one case of removal of a carcinoma I removed that from the anterior retous kidney gion, not knowing what I was going after I hoped it is very difficult to control the bleeding points I I had a cyst of the liver of a hydatid form, but on reaching it I found it was the kidney I opened the having the work under your fingers capsule of the kidney and preserved that, and after the kidney was enucleated, which was done much I cut down on the capsule, I am not positive whether more easily than I supposed it would be, I had no difficulty in closing the vessels in the manner the After ligating the pedicle it doctor has described was dropped into the bottom of the capsule and the walls of the capsule fastened to the wound, and dramage-tubes inserted so that there could be no communication with the peritoneal cavity proper The result of the operation was very satisfactory and there was a rapid recovery, although signs of the recurrence of the disease are appearing in other tissues

The fatal issue of this case DR W T BELFIELD through uræmia emphasizes again the necessity for ascertaining the integrity of the opposite kidney before removing the one under suspicion This precaution is especially needful in cases of renal tuberculosis, since the second kidney is so often the unexpected subject of this insidious disease In women the urine from the opposite kidney can be isolated by catheterizing its ureter either through the urethra or-if that fails-through a small incision through the vesico-vaginal septum whereby the orifices of the ureters are rendered accessible If the urine be thus obtained previous to the operation, and be found normal in quantity and quality, the surgeon can be reasonably confident that nephrectomy will involve no danger of uræmia at least, while, if this precaution be neglected, the greatest care and skill may be vitiated by uræmia through unsuspected disease of the remaining kidney

It is questionable whether for nephrectomy, or, indeed, all operations upon the kidney, chloroform dren, and has had three miscarriages, the last one

DR PARKES, in closing the discussion, said old incision recommended for exposure of the kid ney is an incision made parallel with the last rib, one nalf or three fourths of an inch away, a safe dis tance away, to enable the surgeon to avoid entering the pleural cavity With this incision the surgeon has always had a great deal of difficulty in exposing and uncovering the kidney and getting at the blood One operator relates that he proceeded all vessels right until he divided the upper half of the pedicle, You can see that then the patient bled to death the incision here recommended exposes everything If you will experiment on a dead body, to view with a healthy kidney—trying first the old incision and then this one, you will be convinced of the lat ter's worth I am convinced of another thing, that it is a good plan in all cases of pus degeneration of the kidney to open the cavities one after the other, if the tumor and also for the purpose of diminishing the congestion around the kidney The great amount of hemorrhage that occurs in this operation is from the enucleation of the kidney, and with a small incision think a great point is gained in every operation by

In reference to Dr Nelson's question as to whether I did or not I pursued the course which I follow in removing all tumors, to cut down on the tumor and to get as close to it and as far away from the I kept close to the dangerous points as possible surface of the kidney and away from the peritoneum

I do not know what would have been gained by This patient was secreting Dr Belfield's suggestion urine from the other kidney into the bladder, it was emptied out through the ureter and could be col lected and examined just as well as if the ureter had been catheterized In the first 24 hours the patient passed 7 ounces of urine from the bladder, in the next 24 hours 10 ounces, and so on up to the time of the occurrence of the unfortunate symptoms to The largest amount passed which I have referred was 17 3 ounces in 24 hours Up to that time there was nothing in the appearance of the patient that would make one think she was not going to recover All at once the change and the end came

MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA

Stated Meeting, October 6, 1887 THE PRESIDENT, JOS TABER JOHNSON, MD, IN THE CHAIR

DR Jos Taber Johnson presented a case of DERMOID CYST WEIGHING 50 LBS

Mrs P, white, æt 32, mother of nine living chil-

First noticed an enlargement about two years ago was taken for some portion of the child's body nancy I saw her at the request of her physician, Dr W P C Hazen, last June I was not certain of a diagnosis, and as the growth was not large, and her health being perfect, I advised delay I san her again in August She was still positive that she was pregnant, and as the weather was very hot and her health very good, I still advised delay I was cerabout pregnancy, of which I saw no symptoms constantly asserted that she felt exactly as she had when pregnant, and declared that she felt feetal tifully used to arrest it movements

I saw her again on September 7 The enlarge ment had been very rapid, she seemed to have doubled in size since I last saw her She gave up all idea of pregnancy at this time and was anxious for an operation I examined the uterus for the first time now with a sound, and found it empty and only 3 inches in depth September 20 was fixed for oper-On the 18th she went to Providence Hospi-Two weeks ago to day I opened the abdomen in the presence of Drs Hazen, M F Cuthbert, S S Adams, Fairfax of Alexandria and others tumor was unusually adherent over the anterior sur face, the adhesions seemed recent and broke down About three bucketsful of fluid were drawn off and the sac removed in the usual way Masses of hair blocked up the canula so as to cause the fluid to flow down the sac and around it Dr Cutts (H M) skilfully compressed the abdominal walls so as to prevent the entrance into the cavity

The patient made an uninterrupted recovery up to the third day, when she suddenly developed a temp of 102° It returned to normal the next day, but the next evening she had much indigestion and the temp was again 102° Her pulse but 96 This evening at 6 o'clock (October 5), temp 1010 pulse 84 I find, after repeated inquiry, that three days ago she ate quite heartily of lemon pie, and I think her prompt trouble is attributable to this indiscretion in diet, but I am somewhat anxious about her

DR Johnson also presented

OVARIES AND TUBES, CYSTIC AND ADHERENT

Miss M, æt 28, single Has been a sufferer at her menstrual periods since puberty, on three occa sions has had convulsions accompanying her painful menstruation Her life the last few years has been Has had little enjoyment, as any excess a burden in the way of excitement or fatigue increased her She was usually compelled to remain in bed a week and sometimes longer at every period Since the 10th of July last had been confined to her room with what appears to me to have been an attack of pelvic peritonitis She has been under treatment for had treated her constantly for the last two years

She begged for some operation which would reof the abdomen six months ago and thought she was move her pain. She jumped at the suggestion of pregnant, could distinctly feel a hard mass, which Battey's operation Indeed, she knew all about it As Dr Leach had explained to her the nature and efthis mass was movable, she felt more certain of preg-|fects of the removal of the uterine appendages, and she came to the hospital with the approval of her family, expressly to have them removed if the suggestion of her physician was approved

I examined her carefully and could find very little evidence of disease except great tenderness, and said I did not approve of the operation, but requested her to write out a brief history of her case tain of the presence of a cyst but was uncertain a result of my exploration she was confined to bed She for nearly a week So great was her pain that poultices, jodine, hot water and morphine had to be plen-After reading her letter and a consultation with Dr Leach, and a full explanation of the risks and effects to the patient, I agreed to make an exploratory incision, and if no trouble was found in the ovaries or tubes I should decline to remove them and would close the incision agreed to, and a week ago last Tuesday I opened the abdomen in the presence of Drs Leach, M F Cuthbert, Tyler, M Bruckheimer and others

I found the ovaries imbedded in a mass of adhesions, and cystic I thought they had been so much damaged by the manipulation necessary to their liberation that it appeared the wiser course to take them The gentlemen present all appeared to be of the same opinion I don't know that they are very much diseased, but I believe they were the cause of all her pain, and that she suffered from many attacks of cucumscribed peritonitis which caused the numerous adhesions found, and I don't know any other way to cure such cases I believe she will now be a healthy and happy woman, and if her menopause is produced that she will be free from her monthly recurring week of agony I know that she is delighted that they are out, and is entirely satisfied and fully understands what has been done and its effects She has had no rise of pulse or temp, has taken no medicine, and feels well enough to day to get up and walk

DR Johnson also reported a case of

COLPO HYSTERECTOMY FOR CANCER

Mrs R, white, æt 47, married, mother of five Had one miscarriage fourteen years ago, children since which time she has not been pregnant. She menstruated regularly and normally until sixteen months ago, when she missed her period and supposed the change of life had occurred Two months later began to have a profuse flow which has continued ever since without much intermission She could not feel certain which was hæmorrhage the time the flow was of a brownish color, watery and had a bad odor, shreds of tissue passed also The first examination was made by Dr Birdsall in Alexandria about three weeks ago, when, upon consultation with Drs Smith and Fairfax, it was decided a very long time She did not get better, and was to be epithelioma of the cervix extending up into the certainly growing worse She was brought to me at body of the uterus I was requested to see her by the Providence Hospital by Dr H E Leach, who these gentlemen, and did so two weeks ago to day I agreed with them as to the nature of the case, and

also that the sooner all the cancerous tissue was removed the better, even if it involved the extirpation of the entire uterus

The patient and her family were ready and anxious, and September 29 was fixed as the date for its per-I hoped to be able to stop short of the removal of the whole organ, and spent at least half an hour in efforts to that end We all felt that the total extirpation of the uterus offered the patient the best chance of recovering, as all the disease could not be gotten away without doing nearly as much violence as the removal of the uterus From the time the patient began to take ether, which was skilfully given by Dr H E Leach, until she was put back to bed, two hours had passed None of the cut tissues were sewed together, a rubber drainage-tube was put in and vagina tamponed with iodoform gauze The patient is now in her seventh day, with a pulse and temp of about 100° She has had no pain except in her bladder, which was probably irritated by the catheter during the Tampon and drainage tube were removed on the morning of the third day The discharge has been very slight and, with the exception of two or three days, free from odor She is now feeling well, takes much nourishment and appears to have a very fair prospect to get well, at least Whether the cancer will return from the operation time will show

DR KLEINSCHMIDT thought that the theory best accounting for the presence of dermoid cysts was the one ascribing their origin to misplaced parts or cells of the ectoderm in the process of folding in of the primitive layers composing the area germinativa These cells from the ectoderm retained their power of producing those structures which we know to be derived from the external integument, viz hair and A similar explanation could be offered for the production of other heterologous structures, e g, the formation of bone in nerve tissue, as illustrated by a case presented here by Dr Lamb, where bony plates were found in the medulla oblongata latter case portions of the osseous lamella of the mesoderm had, according to this theory, become misplaced among the cells of the ectoderm, which as we know, produces in the course of development the central nervous system as well as the external He thought this the theory accepted by most modern authorities in preference to the older explanation of "fœtus in fœtu"

Dr Kleinschmidt's explanation DR REYBURN In the male, teeth, is undoubtedly the correct one hair and even bone have been found in unusual places, which can only be accounted for by the obliteration or perversion of the developmental pro-He had a case about fifteen years ago girl was very much enlarged, and was willing to run the risks of an operation to protect her chastity Unfortunately she died The cyst contained bone, He reported the case and it gave hair and teeth rise to an animated discussion Many of the members thought it a mal pregnancy

DR SCHÆFFER of great interest

thology The first case he saw made an impression It contained jet black hair, over a foot in on him They are very rare Certain length, and teeth points in the theory mentioned by Dr Kleinschmidt seem to conflict It is not surprising to find these abnormalities in the male Monstrosities are found in all kingdoms He could recall an instance in which one fectus was partly buried in the abdomen of the other, as if it had turned a summerset normalities are not infrequently met with in twin pregnancies, one grows to maturity and the other remains undeveloped or takes on some unusual development Bone is not of the ectoderm or outer layer of the embryo, so how will Dr Kleinschmidt account for it in these tumors?

There is a decided difference of Dr King opinion between Drs Schæffer and Kleinschmidt. Dr Schæffer considers such growths degenerate in character, and Dr Kleinschmidt a part of the woman's fœtal development A part of the ectoderm remains and later in life develops into hair, etc. He has not studied the development of the generative organs very closely, so does not remember any fold that forms those organs Such growths are easily explainable on the theory mentioned by Dr Kleinschmidt

Can we find hair elsewhere? Dr Schæffer Then it must be due to misplaced cells Bone, teeth and hair remain after all else has been absorbed

The discussion of Battey's operation was postponed till the next meeting

(To be concluded)

SUFFOLK DISTRICT MEDICAL SOCIETY SECTION FOR CLINICAL MEDICINE, PATHOLOGY AND HYGIENE

Regular Meeting, November 9, 1887 DR V Y BOWDITCH, IN THE CHAIR DR F O Oris read a paper entitled, HINTS TO PHYSICIANS SENDING THEIR PATIENTS TO COLORADO

From a somewhat careful consideration given to the numerous health resorts throughout the world, and a personal acquaintance with some of them, I am prepared to say that I know of none possessing so nearly a perfect climate for many cases of phthisis, taking it all in all, as that of Colorado, or so nearly fulfilling the conditions necessary for the most suc-"Climatic treatment," cessful climatic treatment says Lindsay, "aims at removing the patient from a climate which induces an indoor and sedentary life to one where an outdoor life of healthful activity may be continuously enjoyed, without hindrance from Climatic treatment aims meteorological conditions at removing the patient from a comparatively sunless and depressing climate, which impairs vitality and lowers nutrition, to a sunny and tonic climate where appetite, digestion, and sanguification undergo such augmentation as may enable the patient to shake off The theory of such growths is or hold at bay the tendency to consumptive disease " These cysts are marvels in pa- All this, I believe does the Colorado climate

Having spent the last summer in Colorado, I was hours there long enough, perhaps, to appreciate the many bits of knowledge necessary and useful for the new comer, and not too long to forget or overlook them When the physician says "go to Colorado," he may not realize that the State is nearly as large as New England and the State of New York together, or must, therefore, give his patient more specific directions than these Generally, however, the physician means Colorado Springs, for there the larger number of invalids or "lungers," as they facetiously call them selves there, go, and undoubtedly this town is better prepared to care for the consumptives than most others in Colorado, for it is not an inconsiderable source of revenue to the inhabitants Scattering cases go to Cañon City, Denver, Salida, Boulder, and other places, but, with the exception of Denver, the accommodations are probably far better in Col orado Springs, if one is able to pay for them mostly young men, go out on a ranch, if they are strong enough to endure the hardships and privations consequent upon such a life, but they must be pre pared for poor food, and much of it is canned Wherever the patient goes, the physician under whose care he comes-and he should be under the observation of some medical man-should be informed by the home physician of the history and condition of the patient Better is it if the new physician is personally known by the one at home Moreover, the former will render great assistance to the recently arrived invalid by advising him as to health and have some dollars in his pocket at the end boarding places of good repute, and in wholesome localities, and, indeed, in a thousand other ways

the purest of drinking water from the melting snows of Pike's Peak are there perforce, on account of pulmonary trouble, are men of ability and skill There is no system of sewerage as yet, but one is in contemplation, and, I should say, was much needed The boarding houses are many and for the most part seem to offer good accommodations, the average price of board and lodging being from twelve to fifteen dollars a week What the physicians there advise, and which obvi ously is the best plan, is housekeeping, if the invalid is strong enough and is with friends, but rents are There is a good hotel, the "Antlers," where the new comer will spend his first few days until he of the society is much like that of a summer resort, invalid is essentially an out door one, which is very thirty five to forty-six cloudy days in the whole year, and from "October 1st to April 1st there is an averthe winter there is practically no rain, and one can

For some time after coming to this altitude (Colorado Springs being 6080 feet high), comparative rest and inactivity is enjoined, and probably with wisdom, but sometimes it seemed to me that this injunction was carried to an extreme, and that moderate exercise would have hastened the improvement or recovery Horseback riding is the exercise larger than England, Scotland, and Wales, and he par excellence at Colorado Springs, as elsewhere in the State, and horses are good and comparatively The rides are innumerable Out on the plains, to the various Canons, to Manitou, the Garden of the Gods, etc

> It seemed to me that there was no very great opportunity for one to find remunerative employment in Colorado Springs, for it is not commercially active Probably some of the other and more busy towns would serve better for this purpose My impression of Colorado in general, however, is that a man of sufficient strength, with energy and adaptability, who desires self supporting work, will not be long in find-As an illustration of this, I know a young clerk from this city who went to Colorado Springs for pulmonary trouble, but who was strong enough to be about and around after a little At the Springs he found a cattle-man who took him into his employ and sent him up into Estes Park to look after his He got the use of a good horse, and was paid a fair monthly salary, together with his board Possessing Yankee shrewdness he found an opportunity to preempt a quarter-section of grazing land at the same time, and now he bids fair to regain his

In summer Colorado Springs, judging from my experience, is likely to have many uncomfortably The majority of consumptives go to Colorado hot days, and it seems to be well for the invalid to Springs, a town of 7000, or more, inhabitants, with seek the coolness of the mountain somewhere and, moreover, it makes a pleasant and agreeable change The physicians, nearly all of whom after a winter spent in civilization, with its consequent and inevitable evils, to have something of the wild and free life of the mountains There are many of the so called mountain parks, near or more distant, and ranging in altitude from 7,000 to 10,000 feet high, which offer both a cool temperature and all the attractions of grand mountain scenery finds hotels in some, in others boarding ranches, and in more remote places he must go prepared to camp In all the food will be found more or less bad, depending upon the distance from any source of supplies, but unless very delicate, the invalid will soon learn to put up with it and will have such an has selected his permanent quarters The character appetite from the life and invigorating air that he can sit down and eat a piece of raw ham quite cosmopolitan, as one would naturally expect it and is strong enough for long trips on horseback, If one enjoys from the coming together of people from so many he can start on his horse from Colorado Springs, or different parts of the country The daily life of the Denver, and ride to the mountains and have his horse there for use For those who are delicate and need possible when one considers that there are only moderately comfortable quarters and care, there is Manitou Park, Idaho Springs, Salida, and Poncha Springs, near by age of less than one half a day of each week when village, most picturesquely located in a deep, narrow Georgetown, a typical mountain the patient will be deprived of sunshine " During gulch, on Clear Creek Cañon, and Estes Park, one of the most charming spots in all Colorado, and of sit on the veranda or be in the saddle every day, the which I shall speak a little more at length. It is one day of sunshine during this season being about eight of the smallest of the Colorado parks, and is about

ten miles square and 7,500 feet, about, above sea- the same invigorating influence in both places Lyons or Loveland, and from thence by a stage road in both places of twenty odd miles The journey is made in a day from Denver tlements in the park, the most of it being owned by the so-called English company Some years ago the Earl of Dunraven visited the place and was so much impressed with its beauty that he got possession of and three or four boarding ranches Ferguson's and it is best for them to remain in consequence of this James's are the best, at which room and board can The damper, but more quiet and soothing atmosbe obtained for about twelve dollars a week of these ranches consists of a number of small cabins of two or three rooms, some of logs and others of rough hoards, but one is very comfortable in them, and he is, or should be only in them to sleep food is fair for the mountains, about the same quality as in the Adirondacks It seems paradoxical that beef should be of poor quality, when all around are herds of cattle preparing for the Chicago market One has, however, every day, an abundance of the and from the latter city to Denver by the Chicago, most delicious brook trout

One of the great charms of the park is the nearness of the mountains On two sides are the great snowy ranges terminating in Long's peak, 14,272 feet high, the "Matterhorn of the Rockies" The air is of the purest, and almost every day is a sunny one Very rarely is it uncomfortably hot, and the nights Generally a fire is comfortable are always cool But once during a stay of six weeks there did I notice any dew, and one can sleep under the open sky without danger from dampness Many spend the in Colorado The cost of the journey there is from summer in tents, which dot the park over, but most of the cabins have chinks and cracks enough in them to let in sufficient air The flora is large and luxurious and the botanist will find continual surprises and delights in it Indeed I do not see how it is possible to find a clearer or more invigorating air, sunnier or bluer skies, grander or more beautiful scenery in the wise to make the ascent from the Missouri river to whole Rocky Mountains than here in Estes Park have known of a consumptive getting up from her bed in Colorado Springs to go to the park, and in a short time after her arrival there riding horseback The winter is not uncomfortable there, I am told, or very cold and so far as climate is concerned one could well live the entire year there if he could endure the loneliness Indeed it would be to me infinitely preferable to a winter among the snows and ice of the Adirondacks, and if a mountain health resort of such perfect climate existed anywhere in Europe, Davos would be deserted winter at Colorado Springs I would advise them to go to Estes Park about the middle of June, when occasional hot days come at the former place, and remain until the first of October If one rides horsebackand half the pleasure of the park is gone if he does seemed to endure the exertion and altitude about as not-it is the cheapest way to take your saddle with you and buy a pony there, which one can do for forty noticed by a physician in his own case When There is a mail once a day, dollars and upwards but no telegraph climate of Estes Park with that of the Adirondacks, trouble was kept in abeyance When, however, he I should say that it was rather warmer in the former descended to a lower level it recurred, or increased place, far dryer, and much more sunny One feels in severity

It is reached, from Denver, by railroad to night temperature is about the same, I should think,

In winter or spring either at Colorado Springs or There are but few buildings and set-elsewhere in the State, there are occasional high winds—"wind storms" they call them—accompanied with clouds of dust, which may produce an irritating and injurious effect upon those whose pulmonary trouble is accompanied with much secretion and who There is a small hotel there of moderate price, have sensitive throats. It may be a question whether phere of Southern California or the South may serve them better, which is again an illustration of the fact that no one climate suits every case of phthisis

> The best time to go to Colorado is probably in September or October—most delightful months there The best time to come East for a visit, I should think, would be either in May, June, or October The best way to go from Boston is, in my opinion, by the New York Central and Lake Shore Railroads to Chicago, Burlington and Quincy Railroad By this means there is but one change from Boston to Denver

> Clothing —One should have as thick winter clothing in Colorado as in this climate, for the mornings and nights are often very cold. In the sleeping room, moreover, one must make sure that the floor is tight and covered with a warm carpet. A fire should be made in the morning before the invalid

> Expense —It is expensive both going to and living seventy-five to one hundred dollars, and board in Colorado Springs, as I have said, is from twelve to fifteen dollars a week Rent of cottages is from fifty dollars upwards About the only thing that is cheap is horse hire

Effect from the Altitude—Some patients think it Denver gradually, so as to become accustomed to the altitude The majority, however, I think, go at once to the altitude at which they are to live, and generally, so far as I can learn, experience no especial discomfort or harm from doing so about ten weeks I lived at an altitude of from 6,500 to 7,500 feet or more, and climbed mountains, three of which were over 14,000 feet high, without experiencing the slightest discomfort Noi, indeed, was I in any wav unusually affected, except, perhaps, on three occasions Twice when on high mountains If one has passed the I had a slight headache, and the third time when at Leadville, which is over 10,000 feet high, nearly to timberline, it seemed to me that in walking I got out I have climbed of breath more quickly than usual high mountains with one of affected lungs, who A curious effect of the altitude was well as I about 10,000 feet high, at which altitude he generally Comparing my experience of the lived, the fever that accompanied his pulmonary

Length of Residence —In whatever climate one finds his lung trouble improving steadily, there he should remain, not only until all signs of mischief disappear, but, in many cases at least, as long as he I feel convinced that this is the safest and wisest plan, and I think that physicians of experience are gradually growing to this opinion This is especi ally true of the Colorado climate, which is such a radical change from the one the patient is likely to I believe the slow improvement, or lack of any improvement, in many cases is due, partly at least, to the worry over the enforced exile. and eager watching for the time when they think they will be able to return to their homes often noticeable how quickly and permanently those improve and recover who take up their residence in Colorado, and settle down to permanent llving there, with their friends and family about them trary is also observed with those who make it a mere health resort, and are separated from their As, for instance, a wife from her family and friends husband, or a daughter from the rest of her family

DR F I KNIGHT There is a point that ought properly to come up, although Dr Otis did not notice it in his paper I think a warning ought to be given, whenever the subject comes up for consideration, at any rate when it is presented to those who are not familiar with the subject, in regard to the cases which are to be excluded from that climate It is too much the fashion, when a climate becomes popular for the relief of any disease, for all patients with that disease to be hustled off there is just as much a mistake as it is for every case of pneumonia to be treated with the same drug It is very much like the treatment of disease with a little book of symptoms

There are certain kinds of consumption that will die very much quicker in Colorado than they would if they stayed at home, and it is certainly very much wiser for a physician, unless he has considered his case for a long time, and perhaps has counsel upon it, to keep at home cases of very advanced disease, also, to keep out of that climate cases attended with a good deal of fever, and very possibly, also, those cases of a highly wrought nervous temperament To be sure some of those latter cases do well in Colorado, and some even of the advances cases

One case I have in mind, which was taken out there without my consent, and not exactly against my remonstrance, which after a long time did do well, although it was a case of very advanced As a rule, it is very much safer not to be in haste, at any rate, to send these cases to a high It certainly has been my experience, and I have had cases of pulmonary disease treated in almost every climate in the world, that the cases of lung disease that are free from fever, and where there is tolerable strength and constitution to start on, do far better in a climate of that kind, a high mountain climate, than in any other, and I think that all

activity of the disease has been mitigated at home, that patients may be removed there with safety, and this is a thing for consideration

There is another point which we must also bear in mind, which must be urged upon the minds of men, that in regard to it they may not act hastily, and that is in sending poor patients off there with the idea that the climate is going to do everything for As a rule, if a man has extensive disease of the lungs, and is going to work for a living, he had better be advised to save his money and stay at He had better do as well as he can among his friends, and not waste the little that he has accumulated in a change of climate, for his money will go in a very short time out there, and he will be left stranded and unable to work It is a great pity, it seems to me, to send off, as some physicians seem to be in the habit of doing, every case of pulmonary disease, without regard to their circumstances Almost every day cases come to me who have been urged to go to Colorado or California, or New Mexico, patients who have perhaps accumulated a few hundred dollars, which is all they have in the world, and they are advised to make a change of climate on account of lung disease They would be left stranded I should say that unless the patient had very little disease, and it was perfectly clear that he was able to work, and certainly it is not so with the most of these cases, they would better be advised to stay at home, unless they have means of living a considerable time without any active work

DR ALBERT N BLODGETT I had an opportunity, some years ago, of investigating the climate of Colorado, although not so extensively as Dr Otis has done, and I was struck by one or two things that have been mentioned, and some that have not been alluded to In the first place, the distance is so great, that many patients who start in fairly good condition are very greatly fatigued by the journey Under any circumstances it is extremely taxing for an invalid The journey is a long one, and I think that, with ordinary expedition, a week would be thus consumed I have seen patients who, from fatigue, have seemed to die sooner there than they would have done if they had remained at home I have supposed that cases in an acute stage of pulmonary phthisis should not be sent to that climate I think the abruptness with which the change should be made, and the high altitude reached, for persons whose pulmonary structures have been invaded by phthisical disease, is a question that should have more consideration than is usually given it seen healthy persons suffer from shortness of breath on arriving in Colorado to such a degree as to make any sort of exercise burdensome for some days have seen others, in Switzerland, who have had a "rush of blood to the head," in an altitude as high as Colorado Springs, which was relieved by frequent nose bleeds I have seen the same thing in Col-Perhaps it would be better to break the climatologists are fast coming to that opinion In journey for the sake of lessening the fatigue, and the cases of very advanced disease, in those cases also in the hope of accustoming the pulmonary particularly where there is a good deal of febrile dis- structures which are already diseased, to the rarer turbance, it is possible that after a time, after the air, rather than to make a hasty journey, and perhaps put a feeble patient in a less favorable condition for improvement than he would be in with a little more attention to this precaution I can certainly verify everything that has been said, so far as my experience will go, in regard to the wonderful climate which is found in this part of our country I had an opportunity of seeing a part of Colorado, although it was a very small part, located in the vicinity of Denver and Colorado Springs, and the parts between, and I never saw anything like the noticeable clearness of the air in this region The exhilaration is something remarkable—certainly in a healthy person—and I have no doubt it would be the same, to a certain degree, in a sick person

I cannot help thinking that the climate of Colorado is the nearest to a typical climate for consumptives which we know anything about, but I believe that far greater care is requisite in the selection | It seems to me that it is a mistake to send other than of cases, and far more caution in changing to that select cases climate than has heretofore been observed

Two years ago I made a pretty careful study of the Appalachian range in Georgia I believe there are certain of the Alleghany ranges which ought to be taken into consideration in sending patients from our own vicinity There is the change in life, the distance in reference to diminished expense, and the expense of living after one is there In the western sections there are a great many places where one may live profitably by making it a home for investment So far as elevation is concerned, there are valleys in certain sections up to 2,000 or 3,000 feet This is inconsiderable in comparison with Colorado, but very considerable in comparison with other ele-Eight-tenths is still primeval forest, which vations equalizes temperature

It is not as dry a climate as Colorado The rain fall is probably not less than in New England, though it is placed on the maps as being dryer than any other section—than the Colorado ranges I saw a number of invalids who felt sure that they could not live on our sea coast border, men who had cavities and had had hæmorrhages, and who were in pretty I have, myself, sent forty or fifty patients to this section, and, although they have different results, in the main it is as satisfactory as double that number of cases who have gone to Colorado Ample board can be obtained with half the money The expense of going is less than half, and sometimes a distinct advantage is gained in the fact of the invalid being much nearer home The air there is as pure as can be found in any part of the world The mountain tops are covered with snow three or four months, the valleys only three or four days at a time The locomotion is on horseback par excellence Every other way is uncomfortable in the extreme

There are one or two DR R W GREENLEAF medical questions relating to it in which I differ from what Dr Otis has said First, in regard to whether the patients who are sent there ought to go right about their exercise or not It seems to me that it is to purify the air of a room occupied by phthisical would be far wiser for them to remain at rest for A well person is quite fatigued by the some days altitude, even in such a place as Colorado Springs I was perfectly well all the time I was there, but communication, by the aid of a tube, with a chimney

even a half-mile fatigued me for some days, after that I could walk indefinitely as at home Instead of remaining in Colorado Springs or in the towns. where there are all the drawbacks of dust and rest dence in cities, why is it not wiser to advise the patients, if they can afford it, to go into the mountain regions and be in camp all the time? To be sure, some things are hard, but they can be lightened in many ways Changes of heat and cold are very It was very warm at midday, and the water was almost frozen at night It seems to me that it is far wiser for the patient to go into the mountains as soon as they are strong enough to undergo such extremes, so that they could be out of doors all the time I was very glad to hear what was said about the selection of cases, for I met many cases who were coming back simply to die

DR OTIS I did say that comparative rest is en joined, and probably is essential I did not mean to say that I believe in activity as soon as the patient arrives in Colorado Springs It seemed to me that some of the patients, after they had been there a year, were sitting about on the veranda when it did seem as if they would do better if they moved In regard to the patient going at once into the mountains, the practical difficulty is that you cannot get good food Unless he is pretty well and strong, the patient could not endure it I don't quite agree with what Dr Knight said about poor people going It seems to me it makes a difference what sort of a person it is I remember one poor young man with no money, a clerk in a store employer gave him a present of fifty dollars, and he went out there He had serious trouble with his lungs, and was told to keep still He got a horse and rode about, and soon made friends with a cattleman who employed him and paid him a fair monthly salary, and he seems getting on well I remember another instance of a young man who had money enough to stay awhile, and found employment He finally bought his employer out I think it depends on the kind of man that goes

FOREIGN CORRESPONDENCE

LETTER FROM PARIS

(FROM OUR OWN CORRESPONDENT)

Apparatus for Purifying the Air of Rooms of Phthisical Patients - Nervous Predisposition in the Ethology of Facial Paralysis—Therapy of Chronic Metritis—A New Truss

At one of the last meetings of the Academy of Sciences, Dr Brown Séquard presented an apparatus invented by M d'Arsonval, the object of which This apparatus is bell-shaped and placed patients at the head of the bed, under which the patient It is so arranged as to be in constant breathes

which is heated by gas, a candle, or a lamp The chimney, which also communicates by a tube with the external air, draws to it all the air that escapes from the lungs of the patient and is expelled outside so that it does not mix up with the atmosphere of This subject was discussed at the last the room meeting of the Société de Biologie, when some of the members present did not see any great advantage that the apparatus described above had over keeping the windows constantly open for the renewal of ally to which it belongs by its origin Moreover, Dr Strauss, while admitting the inconveniences that may result from breathing con patients does not contain microbes Tyndall has shown that this air was optically pure, it contained the presence of a single bacillus in the air expired by rise to the lesion is cured his phthisical patients same results that, as regards microbes exclusively there is no in- it depends convenience whatever to breathe the air expired by phthisical patients

This certainly does not accord with the experience of the majority of physicians, and Dr Brown Séquard, in responding to the above remarks, observed that it is well known that phthisis commits greater ravages in the cities than in the country, and, generally speaking, in all places where the population is not on it, as is generally done dense and conglomerated In prisons the mortality from phthisis is considerable. It has been remarked also that soldiers affected with tuberculosis enjoy better health when they are out in the camp than when they are confined to their barracks All these considerations, the speaker added, demonstrated the dangers of breathing confined air, and that allowing abstraction for microbes, as this air certainly con tains other principles injurious to the health

In an interesting article on the part played by nervous predisposition in the etiology of facial paralysis, published in the Archives de Neurologie, Dr E Neumann observes that, when an individual is affected with facial paralysis, the hemiplegia cannot be referred to an organic lesion, one is disposed to accuse the cold, and to impute the malady to its depressing influence on the body, and hence the reason why the affix "à frigore" is sometimes applied to it Such, however, is not the opinion of the author, and, founding his observations on numerous clinical facts, Dr Neumann thinks that neither the cooling of the themselves to determine, in any person not pre disposed, paralysis of the face These circumstances are only accessory factors which rôle of provoking agents the a soil prepared in advance predisposition

cedents of the patient, which will disclose an hereditary nervous condition without which all the determinant causes would be absolutely powerless to provoke a hemiplegia of the face In conclusion, Dr Neumann suggests that rheumatic facial paralysis should be definitively removed from the category of maladies included under the term "à frigore," to be enrolled among the other maladies of the nervous system, and to take its place in the great neuro pathological fam-

In his lectures on the Therapeutics of Chronic Metritis at the Lourcine Hospital, Dr Martineau fined air, observes that the expired air of phthisical endeavored to show that the treatment of metritis is not single, as it was said to be by the older gynecologists, that this disease did not rest on one lesion neither microbes nor solid particles Prof Grancher only, and that it did not suffice to cure this lesion to declared that he had never been able to discover | declare that the uterine inflammation which gives The curability of metri-M Charin arrived at the tis is possible only on the condition of treating the Consequently, the conclusion was general malady, constitutional or diathetic, on which The author has thus removed the treatment of metritis from the narrow limits of anatomical and symptomatic localization

At a recent meeting of the Societé de Chirurgie Dr Lucas Championnière exhibited a new truss of his invention for patients who have been operated It consists of a simple elastic band on for hernia with a pad, which is placed above the cicatrix and

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FROM OUR OWN CORRESPONDENT)

Pathology and Treatment of Diphtheria—Sarcoma

At the last meeting of the County Medical Association Dr J Lewis Smith read a paper on Present Opintons Regarding the Pathology and Treatment of He said that while the investigations Diphtheria concerning the etiology of the disease had clearly established its microbic origin, the microbe which was its specific principle had not been positively demonstrated, and he then went on to speak at some length of the bacillus observed by Loeffler and described by Klebs in 1883, cultures of which to the twenty-fifth generation, inoculated in guinea-pigs and body nor the nervous derangement can suffice of birds, produced a whitish exudation at the point of inoculation The investigations into the microbic origin of diphtheria lend considerable support to play the theory that it is primarily a local disease, and efficacy that in certain mild cases it never becomes conof which would doubtless be nil if they did not find stitutional, or is constitutional only in a very The preponderating feeble degree Nevertheless, those who believed part in the etiology of paralysis of the seventh pair that diphtheria was primarily constitutional based of nerves must be ascribed to hereditary nervous their opinions on facts which presented strong evi-When a physician finds himself in dence in favor of their view, such as the inoculation the presence of a subject affected with facial paralysis period of six or seven days in certain cases, the early manifesting itself independently of any appreciable occurrence of nephritis (even within 24 hours in maorganic lesion, he should make an inquiry into the lignant cases), and the existence of very severe and family antecedents as well as into the personal anteof the mucous surface had been so trivial as to be instances were also mentioned showing that the area scarcely appreciable The mooted question as to whether diphtheria is primarily constitutional with small, and therefore unlike that of pertussis and local manifestations, or whether its nature in this respect varies in different instances, he thought, therefore, must be considered as still undetermined

As to the propagation of diphtheria, the statistics of Dr C W Earle, of Chicago, showed that the disease was as severe and fatal in salubrious localities in the newly settled and mountainous States and Territories of the Northwest, when it happened to be introduced, as in the foul air of large cities. though dampness and decomposing animal and vegetable substances in rural localities, as in cities, increased the prevalence of the disease His statistics also showed that diphtheria may be communicated fully studied the infectious diseases in children's inlong distances by railways, and probably by merchandise, and they demonstrated its extreme contagiousness from person to person In the cities there was abundant and melancholy proof of the causative | that one principal reason why there is such a differrelation of foul air, whether arising from sewers or from stagnant filth, to the disease, and Dr Sternberg. in his recent Lomb prize essay, had expressed the in different localities and at different times. Accordopinion (which seemed to be borne out by observations relating to the etiology of diphthena), that the diphtheritic germ, once deposited in damp and foul places, is probably propagated independently of the sick Thus, in New York city prior to 1850, although foul sewers and unsanitary conditions existed, there was no diphtheria, but in the decade following 1850 diphtheria was introduced, and its germ made its way into the sewers, where in the filth underground it found a nidus for its propagation, so that now, whenever sewer gas escapes into the domiciles of the city, it is laden with the germs of this disease

The amazing vitality and power of propagation of the diphtheritic germ are apparent when we reflect that it has permanently infected the filthy-flowing years, ½ grain current of the sewers in every part of a great city, sewers which in their ramifications extend for hun-|ment by turpentine, both internally and in sprays dreds of miles It is propagated chiefly by exposure of children to the sewer gas, carrying with it the diphtheritic germ, which exudes from this widely extending underground culture-bed, and to walking cases of | teaspoonful, given from one to three times a day in diphtheria, often so mild that there is little or no complaint of the throat or impairment of the general it as a spray, and of 36 cases treated in this way, In Dr Smith's opinion, the germ of diphtheria is of such a nature, and quickly becomes so established in a sewered city, that it can never be in teaspoonful doses, reduced the temperature in 47 "stamped out," as cholera and yellow fever may be, by the active measures of health boards or by legislative enactments, although these may doubtless do much in the way of protection He also alluded incidentally to the possible communication of diphtheria to man from animals, and stated that recent acid, potassium chlorate, etc., 32 5 per cent died investigations went to show that it may be thus communicated from poultry, and especially from pigeons

In speaking of the area of contagiousness in diphtheria, Dr Smith said that Dr Lancey had cited cases to show that this area is limited to a few feet, and that Dumez had stated that in a school in which the boys and girls in the same hall were separated by an open space a few yards wide, diphtheria prevailed stating that he had seen it cause symptoms resemamong the girls, but did not attack the boys Other bling those in extreme cedema of the lungs In

of contagiousness, like that of scarlet fever, was measles, which, when they entered a domicile or asylum, usually attacked all the unprotected chil-Dr A V Meigs, of Philadelphia, in a paper dren published last year on the propagation of the com mon infectious diseases of childhood, placed diphtheria with scarlatina and typhoid fever in one group Diseases of this group, he said, seemed to be more subject to endemic or local influences than were measles and pertussis, not spreading over wide com munities like the latter, and hence, by strict quarantine and preventive measures, their wide extension was more easily prevented Those who had carestitutions and elsewhere, Dr Smith thought, would recognize the truthfulness of this distinction

In taking up the subject of treatment he remarked ence of opinion in regard to the value or remedies was because the disease varies so greatly in severity ing to some observations made by Lunin at the Oldenburg Hospital in 1882, turpentine was found to be the most useful agent in the fibrinous form of the disease, and tincture of chloride of iron in the phlegmonous and septic forms By many physicians bichloride of mercury was at the present time considered the most efficient remedy, but it was necessary to use it with great caution, especially in the form of a spray, or where it was given internally at the same time that the spray was employed Dr Smith thought that the quantity of bichloride that could be safely administered to children of various ages was about as follows To a child of 2 years,

1/6 grain, 4 years, 1/4 grain, 6 years, 1/3 grain, 10 He devoted considerable attention to the treat

and fumigations, and quoted a number of favorable opinions concerning its use |Thus Schenker employed it internally in doses of from 10 minims to 1 milk, sugar-water or gruel At the same time he used with the use of alcoholic stimulus as required, in addition, 31 recovered Sigel stated that turpentine,

cases, in 14 of which the necessity of tracheotomy was apparently obviated by this remedy whole number of cases treated by him with turpentine, 87, death occurred in 149 per cent, while in those treated with bichloride of mercury, salicylic

Among the other agents considered by Dr Smith were sodium benzoate, bromine, calomel, quinine, copaiba, cubebs, pilocarpin, tincture of chloride of He spoke in strong iron and potassium chlorate condemnation of the use of pilocarpin (which has been highly lauded by some authorities), on account of the disastrous results liable to be produced by it,

speaking of chlorate of potassium he gave the following prescription, which he said had been long and favorably known in New York, and was probably more frequently written, with some variations in its proportions, than any other in diphtheria

Tinct ferri chlor Potass chlorat git x Acid muriat dilut Syr simplicis

Dose, I tablespoonful every one or two hours

The tendency, however, had been in late years to diminish the amount of potassium chlorate, or even to omit it altogether, from its known irritating action on the kidneys, which are so prone to inflammation in this disease, and he thought it should no doubt unne

In conclusion, Dr Smith spoke of the solvent action of papayotin and trypsin on diphtheritic mem-Dr A Jacobi had met with good results from the latter, employing a mixture of r part of papayotin and 2 parts each of glycerin and water solvent action of trypsin, like that of lime water, was increased by using it in connection with an alkali, and he suggested the following formula for a spray

Sodii benzoat 51-11 511-111 Sodii bicarb Trypsin Ol eucalypti Liq calcis.

At the conclusion of Dr Smith's paper, Dr A Leale said that in order to overcome the difficulty of feeding the patient so commonly met with after intubation or tracheotomy, he had been in the habit of resorting to a very simple but efficient device, which he thought ought to be more generally This was the introduction of a No 8 velvet-eyed rubber catheter into the stomach by way of the nose, and the injection through it, by means of an ordinary syringe, of any kind of liquid food that was required

On the same evening Dr Frederic S Dennis read a paper on Selected Cases of Sarcoma in Bone, which was illustrated by a large number of interesting specimens and microscopic sections In concluding if he called special attention to the importance of the

following points

1 An early diagnosis 2 Complete removal of the disease by amputation of the part in which it is situated, and not by enucleation of the tumor The careful watching and recording of the subse quent history of the case 4 The recording of all cases of sarcoma in bone coming under observation, together with the microscapic appearances of the growth 5 In collecting statistics of this disease the discarding of all cases in which the microscopical appearances are not fully recorded

THE SUDDEN DEATH OF DR J Reply to Dr H C Markham

ports the melancholy death of a young and accomplished physician, Dr J E Chandler, of Rowley, Iowa, his death having taken place suddenly and almost immediately after the extraction of a tooth "Some years ago the deceased Dr Markham says suffered a severe rheumatic attack although not arthritic in type (italics mine) For two or three years he has developed heart symptoms, including a mitral systolic murmur" In The Journal of Dec 3 Dr Markham, in his reply to Dr Babcock, makes further comment upon this unfortunate death, and it is my honest conviction that, when he says death was due to "a fatal faint, and not heart disease," he draws a conclusion not warrantable in this case, when all the known facts are taken into consideration always be omitted if any albumin appeared in the therefore beg to differ with Dr Markham in this instance, with all due courtesy, and with a due regard for his unquestionable professional ability

Take, if you please, an hypothetical case with a "mitral systolic murmur" indicating but a slight orgame lesion of the heart, and in addition to this a certain degree of general debility, and I admit the possibility of death taking place by ventricular overdistension, and during no greater mental excitement and physical exertion than Dr Chandler probably expended in extracting the lady's tooth ther, I am not prepared to deny, in a rare and isolated case, the bare possibility of death occurring under similar mental and physical circumstances where ante mortem and post-mortem examinations fail to suggest the organic heart lesion Chandler's case, however, I propose to demonstrate the probability, if not the almost certainty, of his "fatal faint" being due to grave and long continued cardiac disease, the direct sequela or accompaniment of acute inflammatory rheumatism of a severe and In other words, the probability protracted type that compensation had been ruptured and grave dilatation established," suggesting that the immediate cause of death was from paralysis from ventricular over-distension, the result of the heart's muscular mability to perform the extra amount of labor instantly demanded to continue the existence of the

patient

At the late meeting of the Buchanan Co Medical Society, Nov 17, 1887, at the request of the Society Dr S G Wilson, in the presence of Dr Markham, gave his remembrance of Dr Chandler's case, and referred in particular to the severity of the acute in flammatory rheumatism from which Dr C suffered One attack, during his attendance as a student in the Medical Department of the University of Iowa, occasioning his return to Independence, Iowa, at which place the writer of this letter, during a social call and in the presence of Drs Wilson and Powers, saw the swollen joints of Dr C Dr Wilson re members the positive establishment of heart-trouble, and is quite sure the murmur developed was considered at the time mitral Not only this, but he remembers having made the diagnosis of endo or pen-He made frequent examinations of the heart after the acute symptoms had subsided, and Dear Sir —In The Journal of Nov 12, 1887, found the endocardial murmur persistent and easily Dr H C Markham, of Independence, Iowa, re- recognized, his last examination of this character

having been made two or three years ago Now we all know too well the great likelihood of cardiac disease occurring in cases of this character also know that in the majority of cases the diseased condition originates in the left side of the heart in that portion of the endocardial membrane entering into the structure of the mitral valve, and that, again, the majority of mitral lesions revert back to inflam matory rheumatism Suppose Dr Wilson had entirely failed to remember his location of the endocardial murmur when last examined two or three years ago, and we have remaining his positive assertion of recognized cardiac disease at that date, and this, taken into consideration with the fact that in a large majority of cases it would, under similar circumstances, be mitral, establishes a very probable diagnosis, the prior presence of inflammatory rheumatism being beyond question This was two or three years ago, and in the absence of further examinations, we are justified in suggesting the possi ble implication of other regions of heart, perhaps of the aortic valves And to increase the probability, permit the suggestion that Dr Wilson's superior qualifications, characteristic caution, and thoroughness, render his statements peculiarly reliable. I look upon it as an illogical deduction to consider Dr Chandler's one of those rare and phenomenal cases above referred to, in the face of unimpeachable tes timony showing that he suffered from acute inflammatory rheumatism, followed or accompanied by endo- or pericarditis, and the establishment, from this cause, of valvular lesion, the natural and ordinary result of which is hypertrophy and dilatation, in which latter condition his "fatal faint," although not a frequent occurrence, is readily accounted for Dr Markham treated him for debility, functional impairment of the liver, nausea, and loss of appetite

As Dr Babcock says, "It is not uncommon for pa tients with heart disease to refer their symptoms to some other organ than the one affected more, the Doctor was an energetic man, very likely more, the Doctor was an energetic man, very likely A G O, December 23, 1887 to perform his daily duties without complaint, hence First Lieut Wm B Banister, Asst Surgeon, ordered to proit is reasonable to assume that his condition was far graver than he himself would admit or others recognize" Dr Markham failed to have his suspicions aroused and examine the heart Yes, the writer of this letter has in his mind a remarkably distinct remembrance of a case located by himself as an attack of malignant malaria, the patient having a "close call," but making a brilliant recovery There is but little doubt but that it was a case of "femoral her-At a time when malaria was in almost every household, overworked, hurried, and in the absence of certain prominent symptoms, I made this blunder I failed to examine the important region that it was good for me to have been there" When by an innocent oversight we occasionally make an important omission or commission, if properly assimilated it will nourish more careful investigation and increase our usefulness in our profession Never before have I even attempted to burden medical P A Surgeon A D Bevan, resignation accepted, to take effect I do so now purely in the interest of Respectfully. correct conclusions

G B WARD, M D Fairbank, Iowa, Dec 9, 1887

ASSOCIATION ITEMS.

PERMANENT MEMBERS —From the list of members of the Association published in The Journal for December 31, 1887, the names of A E Goodwin, MD, Rockford, Ill, and HN Moyer, MD, Chicago, Ill, were unintentionally omitted In revising and copying so many names by the Secretary and Treasurer, there may have occurred other omissions, and if so, we will supply the defect by publishing all additional names to which our attention may be

MISCELLANEOUS.

PROFESSOR R A F PENROSE, Professor of Obstetrics and Diseases of Women and Children in the University of Pennsylvania, has tendered his resignation to take effect at the close of the present college term

SIR GEORGE BURROWS, of London, formerly physician to the St Bartholomew's Hospital, and physician in ordinary to the Queen, died recently, aged 86 years

NEW BOOKS RECEIVED

Annual Report of the Supervising Surgeon General of the Marine Hospital Service of the United States for the Fiscal Year 1887

Health Lessons A Primary Book by Jerome Walker, M D New York D Appleton & Co

Report of the Surgeon General of the Army to the Secretary of War for the Fiscal Year ending June 30, 1887

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY FROM DECEMBER 24, 1887, TO DECEMBER 30 1887

Col J H Baxter, Chief Medical Purveyor, ordered to inspect the medical purveying depot at St Louis, Mo S O 296,

ceed to Ft Lowell, Ariz, and report to commanding officer for duty, upon the arrival of Surgeon P J A Cleary, at Ft. Wingate, N M S O 135, Dept Ariz, December 20, 1887.

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U S NAVY, DURING THE WEEK ENDING DECEMBER 31, 1887

P A Surgeon C Biddle, detached from the Marine Rendez-vous, Philadelphia, and placed on waiting orders Medical Director C J Cleborne, detached as member of Med-

medical Director C J Cieporne, detached is member of Medical Examining Board December 31, and ordered to Norfolk Naval Hospital January 5, 1888

Medical Inspector M Bradley, detached from Naval Hospital, Norfolk, January 5, 1888, and placed on waiting orders Medical Inspector J H Clark, detached from special duty at Portsmouth, N H, and ordered is member of Examining Board at Washington Board at Washington

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U S MARINE HOSPITAL SERVICE FOR THE TWO WEEKS ENDING DE CEMBER 30, 1887

December 31, 1887 Asst Surgeon W D Bratton, granted leave of absence for

thirty days December 30, 1887

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

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No 2

A CLINICAL LECTURE

STRICTURE OF THE URETHRA

Delivered at the West Side Free Dispersary, Chicago, Ill BY HENRY J REYNOLDS, M D,

PROFFSSOR OF DERMATOLOGY IN THE COLLEGE OF FINSICIANS AND SUR GEONS, CHICAGO ILLINOIS PROFESSOR OF SKIN AND GENITO URINARY DISEASES CHICAGO FOLICLINIC CHIFF DERMA TOLOGIST TO THE WEST SIDE FREE DISTPNSARY
SURGEON TO THE DEJARTMENT FOR GENITO
URINARY DISEASES WEST SIDE FREE
DISPENSARY CHICAGO (Reported by WILLIAM WHITFORD)

GENTLEMEN There are two classes of cases where we are always very liable to meet with stricture of the urethra First, those cases that come to us with a history of having had a continuous gleet for sever al months or years, preceded by one or more at tacks of gonorrhœa Second, those cases that ap ply to us for relief from an attack of retention of As the case we are about to consider to day comes under the first class, we will now confine our remarks chiefly to stricture as met with in this class of cases

It is almost a natural consequence, after repeated and long continued attacks of urethral inflammation, that some contraction of the urethral passage should be the result, and organic contraction once fully es tablished, for mechanical and other reasons, natur ally tends to perpetuate the inflammation wise, therefore, when consulted for this class of cases, to always investigate the condition of the urethra as regards stricture, etc

Case — The history of this case is as follows tient is 39 years of age, and since his third attack of gonorrhœa, fifteen years ago, he has had almost a continuous discharge from the meatus, which has several times assumed an acute character He is obliged to pass his urine a little oftener during the day than is natural, and to get up from one to three times during the night for this purpose three months ago, he says, he was cut for stricture at some point near the meatus, but the symptoms have not been in any way relieved by the operation

Now, in order to know whether this man has stricto what his normal urethra should be Though not universally conceded, it is a pretty generally acentire organ A penis measuring four inches in cir-

stricture exists, and the meatus be sufficiently enlarged, to admit a No 40 French sound, which is about 24 English One three and one half inches in circumference will admit a No 35 French, which is about 22 English, A circumference of three inches would indicate a calibre of 30 French, or 18 English, Though an ordinary inflammation or congestion of the urethra may naturally somewhat diminish this calibre, I think it fair to presume that, when we find at certain points a deviation of several sizes from this rule, some stricture exists surgeons might claim, however, that a slight amount of contraction as indicated in this manner, would not be sufficient to demand surgical interference, but I know no reason why, if we pretend to treat or cure stricture at all, the original calibre should not be completely restored

Examination —We find in this case a circumference of three and one half inches, and would therefore expect a urethral calibre of about 35 French, or 22 English Now, the use of an ordinary sound of

uniform diameter through its entire length would be sufficient to determine the presence of stricture, but as it would be impossible to definitely locate one or more strictures in this manner, we make use of what are called "bulbous sounds," such as I now show

Passing the largest size that will be admitted, or beginning first with one about the normal size and constantly changing to smaller size till we find one that will pass through the stricture, then as it slips through the strictured point the bulb detects the extent and location of the contraction, and so on with the deeper strictures, which, if any exist, are generally found to be smaller than those nearer the meatus The meatus is usually the smallest part of the urethral passage, but in this case it was cut at the time he says he was operated upon for stricture, and is now nearly as large as we have indicated the urethra should be We find, as you see, a point extending from two inches to three inches from the meatus which will only admit a No 21 French bulb, which is about 12 English Farther down, at five inches, we find a point which will only admit a No 19 French bulb Now, while we find a ureture or not, let us first get some approximate idea as thra here with a calibre abundantly sufficient for the free passage of urine, it is nevertheless diminished in its calibre nearly one half at two different cepted theory, that the size of the urethra should points, and while a chronic gleet may at times be always bear a given relation to the size of the met with wherein there is no stricture, it is entirely probable in this case that the discharge is, if not cumference will almost invariably be found, if no actually caused by this contraction, certainly aggra-

vated or prolonged by it, and as we find here a mechanical imperfection of the urethra, the rational procedure in treating the case, or endeavoring to cure this gleet, would be first to make the urethral canal a mechanically perfect one We will, therefore, for the time being in treating this case of gleet devote our entire attention to the removal or cure of these strictures

Treatment — There are four principal methods for treating stricture of the urethra First, gradual dila-Second, rapid dilatation or divulsion electrolysis, or the use of the urethral electrode Fourth, cutting or urethrotomy As there are undoubtedly cases in which for numerous reasons each of these methods may be used to advantage, I may, while the patient is being anæsthetized, briefly describe them

Gradual Dilatation -To enlarge a stricture by the process of gradual dilatation, conical steel sounds, similar to the ones I now show you, are generally used The largest sound that will pass through the strictures into the bladder without particular force, or causing the patient any severe discomfort, is to be passed and the same process repeated about every third day, now and then resorting to a larger instrument, as the condition of the canal will seem to permit In this way, very many organic strictures of the urethra may, in the course of several months, be enlarged to nearly, if not quite, the Some of the objections, however, normal calibre to this method are its slow process, the repeated lia bility of its provoking reflex urethral troubles, such as the so called urethral fever, prostatitis, cystitis, etc, especially if the urethra be very irritable, and the fact that in order to maintain the calibre acquired, the occasional passage of the largest sound, which has been used, seems generally to be necessary afterwards

Rapia Dilatation —By rapid dilatation or divulsion, we mean the restoring of the complete size of the urethra at one operation by the use of an instrument, such as I now show you, known as a "urethral di vulsor," an instrument which, as you see, when passed into the urethra, may be expanded by various devices, and made to rupture the contracted tissues In strictures of the deep urethra the tissues, owing to their more unyielding character, may be generally ruptured by this process, and the effect or result is then very similar to what it would be if they had But in strictures anterior to the scrotum the tissues, instead of always rupturing during the process of divulsion, frequently stretch like India rubber, as it were, and immediately come back in this case, and I think the best in all bad cases, when the tension of the instrument is removed, leaving still some contraction, and the latter is one of the principal objections to treating strictures by this known as the "Otis divulsing urethrotome," which method

Electrolysis -Though there are to me some very important objections to electrolysis as a scientific to use it in this case method of treating stricture of the urethra, it never- large enough to admit a No 22 English, which is the theless has its merits, and is in suitable cases, to say size we propose to pass on this man, after the stricthe least, a very useful adjunct in the treatment of tures are removed we enlarge it slightly by putting by even its most ardent advocates, that strictures drawing the blade, cutting down towards the frænum,

cannot well be enlarged to more than about a No 14 or 16 English in size, by this method, it is therefore best, if not only adapted to the treatment of stric tures of small calibre In treating strictures by this method a galvanic battery, so constructed as to give the best electrolytic effect, is required A urethral electrode, such as I now show you, which is a metallic sound insulated to within about one-half inch or so of its tip, and so arranged that it can be connected with the negative pole of the battery, and which should be several sizes larger than the stricture to be treated, is passed down and pressed against the stricture The circuit is now completed by placing the positive electrode on some adjacent As to the strength of current required, no definite rule can be laid down, with the ordinary McIntosh battery, from eight to sixteen cells will be necessary The electrode is now carefully and continuously pressed for several minutes until it finally passes through the stricture, causing, during the continuance of the operation a certain amount of stinging, burning pain This operation is to be repeated every week or ten days, using at each time an instru ment several sizes larger than at each preceding This, then, would complete a rather imperfect description of the method of treating strictures by electrolysis

As to the merits of this method, it is an unquestionable fact that a larger instrument, if it contains an electrolytic current, can be passed through a very small passage than could be done without the current, as it seems to dissolve its way in, as it were This I frequently see demonstrated in a very striking manner during the removal of superfluous hairs by electrolysis, when the needle, if the current be on, will pass into the tissues without any perceptible resistance Owing, however, to the fact that with the use of a very large electrode the current becomes greatly diffused, very little electrolytic action takes place, and the effect then becomes very similar, if not the same as from the use of an ordi-It is obvious, therefore, that this, as a nary sound method for restoring the complete calibre of the urethra, is an imperfect one I occasionally use it, however, when I have a stricture so small that I cannot get any other instrument in, as it is, I think, the best method for enlarging a very fine stricture, preparatory or preliminary to the more radical method of divulsion and cutting, which I always prefer ultimately to resort to, and which I shall now describe

Cutting Operation -We now come to consider a method that is the most radical, the one we shall use namely, internal urethrotomy I think the best instrument ever devised for this purpose is what is may, as its name would indicate, be used for both divulsion and cutting, and we will now proceed As the meatus is scarcely As it is a fact, however, admitted I think, it on a stretch with this Otis instrument, and withusing the instrument therefore upside down, we now press it down to a point so that when the blade is slightly withdrawn it comes in contact with the first stricture We next, as you see, turn the screw at the end of the instrument and stretch the tissues up to 36 or 37 French, which is shown by the indicator on the end of the instrument We now withdraw the blade for a distance of about one and one half inches, and of course, the urethra being on a stretch, divide all the strictured tissues. We now turn off the tension from the instrument and slip the blade back so it is again concealed, and pass it on down to the other stricture and use the instrument in the same manner as before We next turn off the tension, allowing the two divulsing blades to approxi mate each other, slip the cutting blade back where it is again concealed, and attempt to withdraw the instrument, but we find that we are unable to do The reason of this is that some of the mucous membrane of the urethra has become engaged between the two divulsing blades of the instrument as they approximated each other, and to remedy this we simply again separate the blades slightly by turn ing the screw at the end, and the instrument, as you see, is withdrawn with ease A No 22 English, which is about 36 French, we now find passes of its own weight into the bladder As the hemorrhage is insignificant nothing further is at present required You now see that, for the time being at least, the contractions of the urethra have been entirely removed

It now remains to look after the after-treatment properly, which is as important to the ultimate suc cess as the operation This will consist of passing a full sized sound, which in this case is the sound we have just passed (22 English), about every third or fourth day, until the parts have become completely healed, which generally requires from one to two months For the first few times the passage of this sound will cause a certain amount of pain, but it will be seen that by persisting in the constant use of it until the parts are entirely healed, the complete calibre of the urethra must be restored, and once being restored in such a manner that there is no contraction whatever remaining, there will very rarely be any subsequent contraction In the meantime the patient should receive such internal remedies as are indicated from time to time We will prescribe for the present the citrate of potash, in quantities sufficient to render the urine neutral or alkaline, and therefore less irritating to the urethra than if it were highly acid in character

ORIGINAL ARTICLES

EXPERT TESTIMONY

Read in the Section on Medical Jurisprudence, at the Thirty
Eighth Annual Meeting of the American Medical Asso
ciation, June, 1887
BY JOHN GODFREY,

SURGEON U S MARINE HOSPITAL SERVICE

"To know facts, to separate them from supposition, to ar-

range and connect them, to make them plain to ordinary capacities, and, above all, to point out their useful applications, should be the chief object of ambition "—WILLIAM HUNTER

There is no intention in this paper to indulge to any degree in a legal criticism of the subject about to be presented. The question as to what constitutes an expert witness, what constitutes expert testimony, and what testimony constitutes evidence, what sorts of testimony are admissible, and what are not, and many things besides, germane to the subject, will be omitted, since they belong more strictly to the purview of the law

The most that will be attempted will be to present a few reflections upon the moral aspect of the subject proper in its relation to members of the medical profession For this two reasons are offered is that, from the structure and behavior of society, medical men are called as expert witnesses more frequently than those of other professions, perhaps as often as all of them combined, the other, that current medical literature amply shows that some features of the subject are yet in an unsettled, and, it may be added, an unsatisfactory state may be added also that, much as medical men are accused of differing among themselves in regard to the particular feature of compensation, they seem to be more unanimous than are those who render decisions thereupon in courts of law

Leaving the decisions to the courts, because, for-sooth, we have to, it may be remarked that, judging from extracts and editorial comments, this one feature appears to be about all of the question that interests the medical world. Nevertheless, it does not follow that it is the most important part, and one feels safe in saying that whatever of time serving sentiment may show on the surface, there is, among those whose high vocation is medicine, an unexpressed conviction that aiding the Commonwealth in its efforts toward the production of universal good citizenship is better work than mere worldly acquisition

As to the competence of expert witnesses it has "That an expert must have special been decided and peculiar knowledge or skill, is as definite a rule as that the search for a lost paper, or subscribing witness, must be diligent and thorough " As all know, the possession of the necessary qualifications is a matter to be determined by the court, yet, notwithstanding the expert witness may be subjected to a preliminary examination in order to test his competency, a recent writer on expert testimony has this "An examination of the cases in which the courts have passed on the competency of experts, shows a lamentable confusion and mixing up of mat ter of fact with matter of law It has been judicially commented on as leading to most unsatisfactory results, and unnecessarily obscuring the true aspect of the law on this subject by the diversity of practice which has prevailed in the judicial tribunals." The Supreme Court of Indiana says "We find no test laid down by which we can determine with mathematical precision just how much experience a witness must have had, how expert, in short, he must be, to render him competent to testify as an expert "

Judging from these and other remarks of learned judges, at least in commenting upon the competency of medical experts, it would seem that they have ap plied the test with anything but "mathematical precision," since they have expressed estimates ranging from the highest to the most satirical and derogatory Take the following as instances

"It was said by The Supreme Court of Illinois a distinguished judge in a case before him, if there was any kind of testimony not only of no value, but even worse than that, it was, in his judgment, that of

medical experts "

The Supreme Court of Texas medical men are received with great respect and con-

sideration, and properly so "

"The experi-The Supreme Court of Michigan ence of courts with the testimony of experts has not been such as to impress them with the conviction that the scope of such proofs should be extended"

The Supreme Court of Pennsylvania settled that the knowledge and experience of medical experts is of great value in questions of insanity"

The London Lancet quotes The Scotch Courts "The evidence was as un-Lord Fraser as saying It left on the mind satisfactory as any he had seen the distressing impression that the science of medicine was simply the science of guessing and experts Different doctors, with equal confidence and equal dogmatism, expressed contrary opinions upon the same condition of things He advised the jury to exercise their common sense, throw overboard the

medical opinions, and go by the facts"

Evidently, from the foregoing, the Justices have had to do with witness material of the most diverse kinds, or else they reached conclusions by very different mental processes But admitting difference in the quality of witness material does not explain the discrepancy in the estimates of the courts, bearing in mind the quotation cited above, that "an examination of the cases in which the courts have passed on the competency of experts, shows a lamentable confusion and mixing up of matter of fact with matter of law" However this may be, at any rate it is the work of jurists, and shows that medical men are not the only ones given to "mixing up" in matters But it does not follow that expert testimony is bad on account of the ipse dixit of a learned judge, for it has happened more than once that an estimate to that effect in a trial court has been reversed in the Opposite opinions, you see, in regard court above to the selfsame thing Nevertheless, whatever the cause, the history of expert testimony is such that, so far, it has not been able to gain a character alto-For this there are various gether above disrepute reasons, some self-evident and in no need of mention, others by no means hard to fathom, but only apparent to close scrutiny The following from "Taylor on Evidence" may be adduced as part explanation in one direction

"Perhaps the testimony which least deserves credit with a jury is that of skilled witnesses These gentlemen are usually required to speak, not to facts, but to opinions, and where this is the case, it is often quite surprising to see with what facility, and to what know what those points are? How many possess

an extent, their views can be made to correspond with the wishes or the interests of the parties who They do not, indeed, wilfully misreprecall them sent what they think, but their judgments become so warped by regarding the subject in one point of view that, even when conscientiously disposed, they are incapable of expressing a candid opinion zealous partisans, their belief becomes synonymous with faith as defined by the Apostle, and it too often is but the 'substance of things hoped for, the evidence of things not seen '"

Herein are foreshadowed two difficulties, one at "The opinions of tributable to inherent deficiencies in human nature, the other growing out of improper methods of obtaining testimony, for surely if one, "though conscientiously disposed," be incapable of "expressing a candid opinion" through zealous partisanship, un questionably he has no business in the witness box, and the ends of justice must fail till such means be devised for obtaining testimony as exclude the ever-

cise of this human failing

But these are not the only difficulties that beset To begin, the breadth and depth of the subject knowledge presupposed on the part of a medical expert is far greater than that essential to the compe-It is safe to say that not tency of other experts one man in ten thousand is endowed with sufficient mental capacity to master all the branches of medi It is safe to say that no living man can cal science truthfully proclaim himself such a master that thoroughly masters even one is justly entitled to, and is cheerfully tendered, the high regard of his professional brethren If the range of purely medical knowledge is so wide, and so difficult to compass, what must it be when further widened by forensic medicine? Undoubtedly it would be better for the State—for the world at large—if every medical man knew all the minutiæ of medical jurisprudence, and stood ready to meet the man of law at every turn, but if, fortunately, he happens to have received some insight into its general principles during his student days, what likelihood is there, while charged with the daily care of patients, or while searching for the secrets of a science that yields at best but grudgingly, that he will trouble his brain with outside studies except in a perfunctory way? Soberly, the problems that daily confront the medical man, plus the drudgery of professional life, leave him but little time to think of, and indeed unfit him for, the intricacies of But admitting the time and the legal questions ability, it is not unlikely that the ardor of the American mind, at least, would be dampened somewhat by the American interrogatory-will it pay? bono is still a common inquiry, and the element of personality is rarely absent from the question advancement must be behind the action of everyday Only the exceptionally great follow promptings from within regardless of reward

In Taylor's work on "Medical Jurisprudence" there are laid down for the guidance of physician or surgeon called to a case of murder or poison some twenty or twenty five points to be nicely observed before the visit is ended How many medical men the detective instinct and training necessary to utilize them? How little likely that a physician, stopped while puzzling over the untoward aspect of his last case, and summoned to a person in the article of death, or about to be, from violence, will pester himself with these two dozen and odd observations in the interest of future legal proceedings? Very few. notwithstanding the caution of a learned judge that "a medical man, when he sees a dead body, should notice everything," and notwithstanding it has been said that "the great art of counsel who defend persons charged with murder or manslaughter, consists in endeavoring to discover what he omitted to do" Certainly he ought to notice everything when he sees a sick body, but how often does he, although the influences are more direct, where the fruits may be seen, and the rewards approximately calculated?

Rules bearing upon facts in medicine, like gram matical rules, are oftentimes overshadowed by ex-This is unfortunate, to be sure, but those who pursue a science should not be blamed for its intricacies Medicine is not a fixed science, and perhaps will never be, though even the most intelligent laymen pretend to think so, consequently the medical opinions of the wisest and most fair minded must en necessitate be dependent in some degree upon the cast and quality of his brain tissue In questions outside of fixed science, so long as brains differ, so must opinions, and in spite of the utmost zeal to

speak truth

In spite of profound thinking and the most industrious research, in spite of centuries of effort to probe the secrets belonging to life in health and disease, in spite of wonderful discoveries and vast advancements, the whole domain of medico legal investigation is yet a wilderness of uncertainties Turn whichever way one may, the exceptions outbalance the In the matter of poisons, vis viva, constitutional resilience, idiosyncrasy, drug habit, in short, any number of peculiarities, leave the basis for evi dence covering very wide limits Sulphuric acid does not always corrode the mouth and fauces, oxalic acid does not always cause pain Arsenic some times gives rise to nausea and diarrhœa, and intense agony, sometimes to collapse and sleep, as if from opium A man dies from tasting tincture of aconite A woman lives four hours after taking 70 minims Immediate ante-mortem violence differs scarcely from immediate post mortem violence Slight wounds of the brain sometimes cause speedy death shot through both hemispheres has survived twentynine days And so on, to a tiresome extent, through out every department of medical knowledge, the exceptions are spread over as wide a field as that between the ages for the beginning and the cessation of menstruation—say from 12 months to 99 years

There is some excuse, therefore, for the medical man, and it is not entirely his fault that it has been said of him that his "appearance in the witness box is but too often the signal for sport among gentlemen of the long robe "

Let it be understood that all along reference has

nor shirking, only desiring to see the right prevail For the medical smartlet, saturated with self importance, noising his opinions that cunning attorneys may utilize them, nosing opportunity for notoriety, scenting the chance to vex or vanquish a professional rival, deluded in the belief that his knowledge is above judge or counsel—for such a one it is enough to say that the worst treatment he gets is better than he deserves The lawyer in search of testimony to fit a special case never fails to find him. The spectacle of a medical man—a man engaged in the highest of all callings-ventilating his opinions, and crowding himself into notice as a desirable witness. for either plaintiff or defendant, is a spectacle that, to the credit of the profession, is not often seen, yet nevertheless seen too often for the profession's good No better than the smartlet is the medical man in the pay of a corporation, when he stoops to coach lay witnesses in suits for damages, putting aside his high vocation to play the rôle of partisan and accomplice But for these it would never have been said from the "The custom of indiscriminately summoning medical practitioners of all sorts, and of all degrees of pathological knowledge and forensic skill, has sadly depreciated the value of medical evidence in courts of justice "

This is by no means flattering, but clearly it is the fault of the medical profession In suits involving medical testimony outside of absolute facts, it is customary for counsel on both sides to go on voyages of discovery in search of medical witnesses to meet special demands And the history of the courts affords ample proof that the counsel rarely fail to find what they seek A distinguished criminal lawyer has told the writer that it is the attorney's rule not to open a trial without knowing beforehand what the medical experts on his side will testify to Is this as it should be? Is the threadbare argument to be offered, that lawyers are entitled to know in advance how certain opinions will affect the cause of their clients? Hardly, if justice be the first consideration It might be said that this would sometimes cripple the proper execution of the law That is to say, it would tend to the excluding of testimony in certain cases necessary to

But the reason, to begin, is not a good one Counsel are no more entitled to previously question a medical man in the interest of clients than are the heads of families before calling him to a case of sick-But, it may be asked, what if one should possess special learning, and felt that his opinion would prove of great value in a given case? No doubt plenty of doctors have the same sort of feeling in regard to given cases of sickness, no doubt some of us have felt that if we could only be called to the case that our brother has been visiting so long, we could bring it around in short order, but the ethics of the profession forbid any volunteering, and the patient gets along quite as safely with the other doc-This rule would work just as well applied to expert testimony as to medical practice, the dignity only been made to those of the medical profession of the profession would be enhanced, its ethics that go to the witness box unbiased, neither seeking | broadened, and justice be none the worse off Adopt

bring the guilty to punishment If so, for the same

reason, it would quite as often save the innocent

it, and there would be no more previous quizzings, no legal coach, no putting of hypothetical questions with the triumphant cognizance of satisfactory forthcoming answers, no "cross and piles" swearing, no laughing-stock doctors, no casting out of medical testimony and striking of balance-sheets by juries Moreover, the vexed question of expert fees, about which there are so many opinions and so many rulings, will have made several strides toward solution

The medical witness that has made himself "solid" with counsel on one side of a case, may urge that his "professional opinion"-"his hard earned knowl edge"—entitles him to professional compensation, but when, being through with the cross examination and from under the fire of the lawyers, he hears his opinion offset by that of another "solid" on the other side, and finds that his testimony is not to be accounted evidence, he may possibly have some misgivings as to what constitutes a proper quid pro quo

The last sentence is not meant as a direct argument against charging professional fees for expert The question as to whether it should be done is still an open one, with decisions on both sides, and apparently of late with a leaning of the courts toward the side of the medical man's doing it Reports of various trials throughout the country show pretty conclusively that the majority of the medical profession inclines to this side, and the reasons therefor—always the same, and unnecessary to give—seem to be self satisfying On the other hand there are others—equals of the best—who think dif-They claim that medicine is not a trade himself to cure the malady for so much in advance but a mission, that he who espouses it takes upon himself the obligation to heal the sick and preserve sional attainments and the stamp of manhood that life, to sustain right and combat wrong, leaving the he bears about him, is summoned to testify uncomquestion of emolument for after consideration They say that to stickle for a fixed consideration in dollars and cents when crime is to be punished and justice to be rendered, is opposed to the most sacred traditions of the healing art, and contradicts the exoteric pretensions of its followers, that the outward avowal of the votaries of medicine is to stand by the weak and assist the needy, if needs must, without money and without price, that the medical man so com pacts with his Alma Mater, that compacts made should be kept, and that he no more than a missionary, should stop to count the cost when good is to be They reason that the Son of Man so taught, that it was implied in the advice to take no thought IROFESSOR OF OPHTHALMOLOGY AND OTOLOGY, COLLEGE OF THIS SICIANS for the morrow, and in divers other teachings, that these teachings, although not at one with the utilitarian instincts of succeeding ages, have been accepted as coming from the Source of all wisdom by such numbers as count far into the millions, and that acceptance presupposes belief, and belief demands practical exemplification In fine, that in all ages of the world the best work of every kind has been done without hope of other reward than that arising from the consciousness of benefiting humanity

These claims may be regarded by many as farfetched, and little better than vagaries, antagonizing the cut-and-thrust tendencies of civilized life, but quently observes that an overstrained eye shows eviwhether they are, and whether they do, at all events, dence of irritation and congestion of the anterior they are not over pretentious in professing to be de- part of the globe or lids By an overstrained eye is

duced from valid premises It should be added, too, that those who make these claims are imbued with no exaggerated notions of sentimentality, and have as few communistic leanings as the most hard fisted individualizer in the profession Nor, no more than the rest of us, do they believe the millenium to have come, understanding full well that man must live by the sweat of his brow, and that a return for services rendered is one of the essentials to the well doing of the race In short, they say strip the subject of all declamation, and let those that write Doctor Medi cinia after their names, declare whether they are engaged in a trade or a mission, whether the business of life means bargaining, or trusting to such emolument as enlightened communities are willing to give for work well done

The solution of the question of extra fees for expert testimony will not be attempted, seeing that in any event it must hinge upon opinion—the opinion of the courts, and the prospects of unanimity among them is still a long ways ahead Instead, and in conclusion, two propositions are submitted with a reasonable confidence in their fairness

- In medico legal cases, if men who practice medicine and surgery are willing to sacrifice professional dignity and cheapen professional knowledge by committing themselves beforehand as to what they would testify if called upon, then they ought to be content with such pay as the law chooses to allow, for, indeed, they are very nearly on a level with the "irregular" who, after hearing the symptoms described, obligates
- 2 If a medical man, on account of his profesmitted in any sense, then he is entitled to such honorarium as his time and talents usually bring him, and it safe to say that such a man will ask no more than he rightly deserves

THE CAUSATIVE RELATION OF AMETROPIA TO OCULAR DISEASES

Read in the Section on Ophthalmology, Otology and Laryn-gology, at the Thirty Eighth Annual Meeting of the American Medical Association, June, 1887

BY JOHN E HARPER, AM, MD, AND SURGEONS, CHICAGO

In calling attention to this subject the writer does not desire to create the impression that he has anything purely original to offer The relation of refractive errors to diseases of the eye and its appendages has been considered in communications from some If, then, he only succeeds in of our best authors adding corroborative evidence to what has already been written, and in drawing forth an expression of opinion from those in attendance, he will have accomplished his aim

Every one engaged in treating ocular diseases fre-

meant one whose accommodation has been taxed to an unusual extent When we consider the direct relation between the nerve supply of the ciliary mus cle and that of the eye and lids, it is very easy to account for the results just mentioned by what is If the straining of accom termed reflex irritation marked congestion of the ocular and palpebral conjunctiva, we can readily understand how important a rôle this would play as a factor of disease when conditions are present necessitating almost constant

Time will not be consumed in repeating clinical facts in this connection that have already become Your special attention will be directed to the influence of accommodative strain in maintaining some of the common forms of chronic disease While the following remarks are also applicable to upon conjunctival and cornerl affections noted and considered in the treatment by most prac- in such cases that not sufficient importance is attached to it doubtedly there are many cases due to this or other causes that pass into the chronic stage before being controlled and the over-sensitive ciliary muscles up sufficient irritation to counteract all ordinary

As illustrating this point three cases will be cited from the writer's practice

Case 1—H M P, at 36, of Newton, Ill, presented himself in October, 1882, and gave the fol lowing history For nearly twenty years he had been a sufferer from granular conjunctivitis associated with pannus During these years he had been treated by many physicians and used nearly every patent nostrum that came to his notice The result of the variety of treatment was in most instances temporary improvement, but whenever he attempted to use his eyes the old trouble returned To use his own ex pression, "during all these years I have not been able to attend to my business properly for one month at a time on account of my eyes"

Examination showed the usual appearances of the conjunctiva and cornea found in such cases Vision was $\frac{20}{100}$ in right eye and $\frac{20}{200}$ in the left Photopho bia was marked and the tears flowed freely when the

eyes were exposed to light

Treatment consisted in the use of a solution of atropine (gr 1v-31) every three hours during the day, and the free bathing of the closed lids with hot After two weeks use of the atropine his cor nee cleared up sufficiently to allow the correction of his compound hyperopic astigmatism. Vision at this time, with the correcting glasses, was R E = $\frac{20}{40}$, $L E = \frac{70}{70},$

The patient being called home on urgent business, passed for a time from observation On leaving he was advised to wear his glasses continually, use atro

taining hyd ox flav gr iv, vaseline 31 ceived from time to time indicated satisfactory progress, and within six weeks after returning home he was able to keep his books and look after a fairsized lumber business

About eighteen months from the time of his first modation for a reasonably short time will produce visit he again presented himself. He stated that he had not lost a day from his business on account of his eyes for fifteen months A test showed his vision to be 器 in R E and 器 in L E The patient was seen last about two months ago, and he informed the writer that he had had no relapse, his vision in each eye was 20, and no difficulty was experienced in reading or doing work requiring vision at close range

Case 2—S M G, et 32, of this city, made his first visit in June, 1883 He had been under treatment most of the time for nearly eight years for granular conjunctivitis with slight pannus diseases of the lids and iris, more stress will be laid gentlemen who had treated him were men of ac-Among knowledged ability, and the graphic description he the recognized causes of simple acute conjunctivitis gave of the methods employed showed that they had we find ametropia mentioned, and while this may be skilfully used all of the standard remedies applicable In fact, nothing seemed to be left for titioners, the writer's experience leads him to believe the writer to try, as the list embraced everything from Un- the silver stick to jequirity Upon careful examination the eyes were discovered to be very sensitive to light and exercise, tearing freely when exposed or used Vision in R E $\frac{20}{10}$, in L E $\frac{20}{50}$ Atropine was used as continue to act, even when not required, keeping in the previous case, and gave much relief from the lachryn ation A test a week later showed the presence of mixed astigmatism which, when corrected, gave vision 20 in each eye

The subsequent history of this case corresponds in the main with that of the first The treatment was very similar, except that mild astringents were employed and continued for a longer period

Case 3 - J H C, æt 22, was first seen September, He was led into the writer's office by a friend, being unable to see his way alone The history elicited was as follows Seventeen months before he had contracted what he supposed to be a cold eyes became inflamed and he immediately placed himself under the professional care of his family phy-Three months subsequently he found his eyes were not improving and decided to consult a specialist of repute Twelve months' treatment under the skilful hands of this gentleman failed to improve his condition, on the contrary, he grew steadily Becoming discouraged again, he decided to seek advice elsewhere

Examination revealed a case of granular conjunctivitis, with marked pannus covering corneæ the second case, nothing was apparently left to be done in the way of orthodox treatment. The eyes, as in the other cases, were very sensitive to light, and although the corner were so opaque that vision could not be tested, the symptoms showed clearly the presence of ciliary spasm. It was decided to use atropine, and the patient's accommodation was brought thoroughly under its influence and kept so for about six weeks Mild astringent collyria were used during the same period, at the end of which pine if the eyes became irritable, and apply once vision had so far returned that it was easy to demondaily to the conjunctival surface an ointment con-strate the presence of hyperopic astigmatism

pine was discontinued for two or three weeks and an week ointment of hyd ox flav substituted The corner continued to clear up, and atropine was again used to determine the amount of astigmatism was not satisfactory, and the correction was post-farticles appeared to be of occasional benefit. The poned until the pannus had further improved

About three months after the patient was first seen the astigmatism was fully corrected, and vision was in the R E 30, and L E 30 The conjunctiva being free from inflammation, the patient was allowed to return home and resume work. When last heard from vision was about normal and no difficulty was experienced in reading

The cases here reported are typical of a large number that have come under the writer's observation, and it is unnecessary to consume time in giving

the history of other cases

Many forms of corneal disease, both acute and chronic, as well as numerous lid affections, have been found to disappear as if by magic when existing ame tropia was corrected

A CASE IN WHICH ABORTION WAS INDUCED FOR UNCONTROLLABLE VOMITING OF PREGNANCY

Read before the Boston Gynecological Secuty, October 13, 1887 BY AUGUSTUS P CLARKE, AM, MD, OF CAMBRIDGE, MASS

I was called on April 30, 1887, to attend Mrs B, aged 32 years, who was suffering from vomiting of Patient menstruated January last, and says she also menstruated March 1, lasting two days Since that time she had had no indication of a return of the menses Until April 30, she had experienced during this pregnancy no unpleasant symptoms The stomach was in fair condition and she was able to take her usual meals

The patient had been married 13 years child, male, was born two years after marriage, that douches were daily employed and occasionally a pregnancy was not attended with any serious symptoms, in fact she was advanced in pregnancy several at night weeks before she was aware of her condition second child, a male, is now 9 years old tient suffered continually during the early weeks of that pregnancy but after the fourteenth week all vomiting and morning sickness ceased The pregnancy continued to full term, and the child was strong and well developed Her third child is now 7 years old, while pregnant with the third child she experienced at first more or less trouble from nausea from the tenth to the fifteenth week but the nausea was controlled to a considerable extent by small doses of ingluvin and bismuth subnitrate Patient [went on without further trouble to the end of pregnancy, the labor was normal and she gave birth to a Within a year after the birth healthy female child of this child she became pregnant but miscarried before the close of the third month She had no morning sickness nor vomiting of pregnancy

terminated December 14, 1881 The patient was a great sufferer from obstinate vomiting from May 21 | not retained, and failed when retained to produce to June 20, that is, from the eleventh to the fifteenth | sleep, and the patient was more exhausted from its

After that date the severe vomiting and nausea were under control During the sickness of that pregnancy ingluvin could not be borne. Iced cham-The test pagne and siphon soda were freely used and these application of a small blister over the fourth and fifth dorsal vertebræ was always followed by a marked improvement in the patient's condition birth to male twins at full term The patient again became pregnant and miscarried during the third month, which occurred in May, 1883, but she cannot now recall that the pregnancy at that time was attended with either vomiting or nausea

At the time I was called, April 30, 1887, the patient had not experienced any special trouble until Other rational and physical signs indithat time cated pregnancy and the patient was confined to her bed and was unable to partake of even the simplest kind of nourishment without nausea or vomiting Siphon soda, iced champagne bisbeing excited muth subnitrate, oxalate of cerium, acetate of morphia in small and repeated doses were prescribed from time to time with only limited benefit ter-irritants to the epigastrium were applied, also small blisters of cantharides to the parts were afterwards applied, these only gave partial relief Subsequently frequent and repeated applications of tincture of iodine to the os and cervix uteri were made These gave the patient a good deal of relief The applications of the iodine were made at intervals of two or three days and sometimes at longer intervals The patient, when I was first called during her last pregnancy, had a very sallow complexion and she vomited not only what food she took into her stomach but she vomited also vast amounts of frothy and catarrhal substances, and also yellow bile urine was heavily loaded with amorphous and granular urates and spiculated spherules of urate of soda First | There was no albumen nor urinary casts Hot-water third of a grain of morphia in suppository was used Gentle laxatives were occasionally used Her and at length the complexion and general appearance

Though the patient was unable to retain nourishment for any considerable period, she appeared to hold her ground until May 27, when she was seized with a severe attack of sick headache, a malady from which she had suffered at intervals since childhood This attack was a great shock to her nervous system The patient was chilly and vomited and suffered from The extremities were deathly cold extreme nausea and the system only partially responded to stimulating applications and to artificial heat to the surface An application of menthol to the head of the body and to the epigastric region, and morphia internally, which had afforded so much relief before now failed The usual solution of cocaine could not be borne by the stomach or afforded no relief applications to the cervix uteri of course had to The next pregnancy began March 9, 1881, and be discontinued and chloral hydrate, which has been often recommended was given in enemata but was

the eyes sunken, and the patient's condition was now means as was the bougie cases, also failed her, and could not be retained by ence was experienced by its presence the stomach nor by the rectum

had attempted to swallow. She was also unable to was the occurrence of an intermittent pain. Anretain enemata of beef peptonoids, or of other nourishment. Dr. Wellington reviewed the plan of treat ary measure against subsequent hæmorrhage. dilate the os and cervix before commencing the ap plications of the tincture of iodine Dr Wellington examined the cervix and made a further attempt at that visit to dilate according to the method of Copeman, but before he had accomplished much he found it necessary to desist, as the patient grew faint He advised that I should make another trial that evening to dilate the os and cervix I did so, but the attempt was only partially successful

The next morning it was very evident that unless the uterus could be speedily emptied the patient

would not survive much longer

The question of inducing abortion we had considered at our consultation, and we also considered that digital dilatation would be a step in aid of that accomplishment But there was another question to be considered, namely, the danger of hæmorrhage, as well as that of shock, and the possible occurrence of has improved, there is less sediment septic influences The question of medical ethics was easily eliminated as the prognosis was neither distant nor uncertain unless the last means at our recover disposal were promptly resorted to At 8 A м, June 4, I placed the patient in Sims' position, and having thoroughly carbolized a No 14, French scale, bougie, olive tip, I inserted it into the cervix in a spiral direction across the fundus between the uterine wall and the membrane so as not to do violence to the latter The bougie was left there for eight hours, and was retained in its position by carbolized cotton tampons The vagina was washed with a solution of carbolic acid (r to 40) before the insertion of the bougie

On the afternoon of that day the patient had a slight show of blood from the vagina, and at 6 PM I removed the tampons and bougie, thoroughly disinfected the parts, dilated the cervix somewhat with the uterine dilator and then introduced a small cu

The pulse was small and the heart was weak, one was bent, and retained in position by the same This was retained until 7 evidently extremely critical R & C's powdered A M, following, when it was removed, together with beef pentonoids, and Wells, Richardson & Co's lac- the tampon, as I had directed the nurse to do if pains tated food, which have proved so useful in other or flowing came on, or any considerable inconveni-

At my visit at 8 30 A M, the next day I again dis-Dr W Wellington saw the patient with me, in infected the vigina, dilated the cervia, and introconsultation, 12 M, June 3 She at that time was duced the curette to see if there was any obstacle to utterly prostrated, she could return absolutely noth-the free exit of the fœtus when it should descend ing in the stomach. She had comited the night be- There had been no flowing of consequence, and the fore sixteen times, frothy substance and whatever she only indication that the patient would soon abort

ment, and remarked that the ground was pretty well. Soon after my visit the pains increased, and by 11 He regarded her pulse as very feeble, but AM, that day, a feetus four inches in length was exsuggested we should make another effort to give the pelled The funis was small or thread like There nourishment in a teaspoonful quantity, regularly as was no marked flowing after the expulsion of the could be done, every twenty minutes, and if that feetus, indeed there was no hemorrhage of imporplan failed, and the stomach refused to retain it, to tance at any time. A large fatty placenta was ex try again the method by injection Dr Wellington pelled twenty four hours after the expulsion of the suggested that digital dilatation of the cervix uteri feetus, and forty seven hours after the bougie was inshould be tried, though I had previously attempted to serted into the uterine cavity-for the first time. At no time after the insertion of a bougie was there any increase of temperature, and no chills, and no constitutional disturbance, in fact the patient began to improve as soon as the fœtus was expelled, and was able almost at once to retain by the rectum repeated doses of beef peptonoids and other nourish-

The stomach gradually grew stronger and by June 12, the patient began to take some nourishment by the mouth, and at no time after means for inducing abortion were adopted was there the slightest increase of temperature or the occurrence of any constitutional symptoms

June 14, 10 AM, temperature still slightly sub-Stomach has retained some thin gruel Patient still looks sallow but is improving Pulse go There is no odor from the vaginal discharge Urine Patient took an enema and had a small evacuation of the bowels Patient feels encouraged and now thinks she will

After this the patient continued to improve and

went on to an uninterrupted recovery

The question is often asked, what is the cause of uncontrollable vomiting of pregnancy? Does it depend upon uterine displacement, local lesion, or an undue constriction of the cervix? Many cases ap pear to be reflex, and treatment directed towards the lessening of reflex action often yield favorable results Vomiting of pregnancy resulting from local lesion, as well as displacement, often occurs, and the vomiting is only controlled when we direct our treatment to the removal of these etiological factors Cases occasionally occur like the one here reported, in which no etiological factors can be discovered, however diligent our search be extended In the majority of cases rette to see if all was clear On removing the boul of vomiting of pregnancy my own observations lead gie I found that it was somewhat eroded I next me to assign as the cause of such sickness the same introduced a No 14 platinum probe, olive pointed, factors as has Professor Graily Hewitt, of London, to this was passed in the same direction as the other uterine sickness in the non pregnant state. Professor Hewitt says that the reflex symptoms of uterine sick- the galvano-caustic loop, was microscopically examness are dependent upon abnormal conditions of the ined by Drs Biesiadecki and Scheuthauer, then asuterus, "consisting of undue softening, congestion and alteration of shape—all more or less associated "

these several abnormal conditions of the uterus are often varied and that such existence, either separately or even in conjunction, may be so slight as not to be recognized by their local manifestations, and that treatment directed to the relief of one of the abnormal conditions may militate against the lessening of reflex irritation emanating from the others Mechanical treatment of the displaced uterus when properly carried out often yields, as said before, happy results, but cases now and then occur in which the displacement or flexion is easily removed though the nausea and vomiting still persist to an alarming extent have notes of a case that came under my care, and though the flexion was controlled, vomiting continued until the close of the pregnancy

MEDICAL PROGRESS.

CURE OF EPITHELIOMA OF THE LARYNX -- Pro-FESSOR SCHNITZLER has recently published, in the Internationale klinische Rundschau, of November 20, 1887, a paper on the diagnosis and treatment of endolaryngeal new growths, in his paper he records the case of a woman in whom he had destroyed an epithelioma of the laryny by the galvano caustic method twenty years ago, and who was still living The diagnosis of epithelioma had at the time been fully confirmed microscopically by very competent and trustworthy pathologists He was nevertheless afraid that, on hearing the case, some might be disposed to make the usual comment referred to in the "Cancer is infollowing remark of Ducarcques curable because it is not cured ordinarily, it cannot term is meant a particular form of acute parenchymbe cured because it is incurable, and when it is cured, then it did not exist " The following are the E L, an actress of Prague, 20 details of the case years of age, was in January, 1867, admitted into the clinic of the late Professor Turck, of Vienna, for persistent hoarseness Turck stated that vegetations of the vocal cords were the cause of the voice Repeated operations performed by him with the knife (in February and June, 1867) were only temporarily successful came, some months later, into the clinic of the late Professor Oppolzer, she was almost absolutely aphonic, and also complained of considerable difficulty of breathing Schnitzler, who was then assistant to Oppolzer found that the local cords were ing of numerous red, non-elevated, and non-irritating much swollen, and detected the presence of red vegetations of a granular appearance at their inner side The vegetations almost filled up the rima glottidis In spite of the youth of the patient, Schnitzler diag- the mouth nosed epithelioma, and immediately removed the neck and the shoulder-blades, and the legs, but not vegetations, which already threatened to suffocate the patient The first piece of a large size (of about pains extended to the sacrum and extremities, and the size of a cherry stone) which was removed by a week later the face and right arm swelled, then the

sistants of Professor Rokitansky Both these experts pronounced the growth to be epithelioma My experience further leads me to the belief that | Schnitzler afterwards heard that Professor Turck had also at once made the diagnosis of epithelioma, and that his diagnosis had been confirmed by the microscopical examination of Professor Wedl Schnitzler had repeatedly destroyed the disease by galvanocautery, and was happy to be able to show the pa tient at the meeting of the Imperial Royal Society of Physicians of Vienna on October 16, 1868, as being cured, that is to say, so far as we were entitled to speak of the cure of epithelioma The patient was still hoarse, but her voice could already be distinctly heard, and the dyspnœa had completely disappeared No trace of the growth could be discov ered (Report of the Society of Physicians of October, 1868) The patient remained under the observation of Schnitzler for some years longer, and he thought it possible that she might have lived for ten years after the operation Before, however, he published the case, he wished to obtain exact particulars as to the patient's fate, and, therefore, applied to the physician who had in the first instance sent the patient to him To his surprise he learned that she was still alive, and that the physician had seen her only recently at Prague, twenty years after the laryngeal epithelioma had been destroyed Schnitzler went on to ask if it was possible that such excellent microscopists as Biesiadecki and Scheuthauer could have made a mistake He could not believe this as their diagnosis was quite positive After all, why should not recovery take place after the galvano-caustic destruction of an epithelioma, as well as after its extirpation with the knife? possibility of curing some kinds of carcinoma was, as is well known, admitted by Rokitansky

> PSEUDOTRICHINOSIS (A NEW DISEASE) -By this atous polymyositis, all the muscles of the body being involved in a general inflammation, in the absence of the trichina spiralis Examples of this affection belong to the curiosities of medicine, according to DR PAUL HEPP, of Giessen, who reports a fatal case of the same in the Berliner klin Woch enschrift, No 17, 1887, and who has been able to find very few accounts of any similar cases above title has been selected as a provisional one When the patient till the true cause of the disease can be made out The following is a brief history of Dr Hepp's case A woman, aged 36, of healthy family, married, and having had three children, began to feel ill in March, Then a rash appeared upon the face, consist-1886 There was dryness of the throat and some spots The rash extended over difficulty of swallowing the neck and back, also to the mucous membrane of Severe pains set in over the nape of the the thighs, became swollen During the week the

The swelling of the face, though it pre lasted one day ing of the limbs, which were also very painful pains were not spontaneous, but set in on the least Stiffness was soon superadded, so that the patient had to be fed The pains were of a dull kind, there was slight drawing of the fingers, but no true formication The appetite remained good all the time, there was much thirst, the urine deposited a copious sediment, and the bon els nere rather con Profuse sweats and sleeplessness were also complained of, never headache The muscles were found to be swollen and in a semi rigid condition, not altered by purposive movements joints appeared normal and were quite free from pain

The œdema was peculiarly hard, and barely re tained the impression of the fingers Gentle passive movements could be made without giving pain, but of slight extent only, owing to the contracted condition of the muscles Each arm seemed like a firm cylindrical tumor, so that it was hard to say how far the muscles participated The head could not be raised from the pillow, only a slight rotation was possible Pupils of moderate width, and react well Voice weak, but normal Sensorium unaffected Sensibility to various impressions normal Tendonreflexes perfectly lost in arms and legs, also abdom-Reflex of sole of foot alone preserved On electrical examination the upper and fore arms and the thighs and legs reacted neither to the faradaic nor the galvanic current, the œdema of the legs was not enough to account for this Strong faradaism caused contractions in the muscles of the hands (interosseous and thenar) The facial muscles reacted well to both currents The internal organs revealed nothing abnormal (the spleen was not en larged), but their examination was very difficult, as it gave pain T 101 2°, P 122, small and soft, R 18, regular Diaphragm acted well Urine scanty, * rather dark, specific gravity 1,036, copious urates, some albumen, under microscope, some few cells, but no cylinders

Within a week or two after admission the patient died in a suffocative attack, preceded for some days by gradually increased difficulty of swallowing The temperature rose to 104° a few days before death, there were severe headaches and much burning feel ing in the skin generally

Autopsy by Professor Recklinghausen - A general firm œdema, except on face Fatty tissue deficient, especially over abdomen Subcutaneous tissue moist All the muscles showed a yellowish pallor, with only here and there a few red spots, and resembled rabbitmuscle, they were very moist Left rectus abdom ruptured in upper part Over the lower part of the right biceps brach very bloody ædematous tissue Hæmorrhagic infiltrations over shin Diaphragm

Fluid blood in vena cava Slight redness of brachial vented the patient from seeing for the time, only nerves Lungs large, much congested, a tew pro The swelling of the arms was very jecting spots dry and hepatized Left lung very ersisted all through remaining life edematous. The right pleural cavity held nearly gradual, and persisted all through remaining life codematous. The right pleural cavity held nearly The back pains reached their climax with the swell-five ounces of yellowish fluid with flakes of fibrin, The the left a little turbed fluid Peyer's patches not to be seen, solitary follicles hardly visible Liver large, weight 4 3 pounds Spleen large, pretty firm, weight 9½ oz Lest kidney very large, otherwise normal, full of blood Right kidney converted into a hydronephrotic sac holding a turbid urinous fluid, but no pus The communication with the ureter was very small, but admitted a fine probe Central organs of nervous system presented nothing abnormal, except for an increase of blood, the meninges were very vascular Gray substance of spinal cord slightly reddened White substance of pons reddened Microscopical examination showed the absence of trichina spiralis The muscles had undergone hyaline degeneration, no fatty degeneration present There was no increase of intercellular tissue. The viscera (except the right kidney) and central nervous organs showed nothing abnormal -London Medical Record, August 15, 1887

> GANGRENE OF THE ŒSOPHAGUS -DR WM WATT KERR, of San Francisco, reports the following interesting case

> During the month of May, 1887, J K, a laborer, was admitted to D ward of the City and County Hospital, complaining of weakness, shortness of breath, and difficulty in swallowing. The history of the case showed that the patient had been addicted to the excessive use of alcohol for many years His breathing had distressed him for about two years, but to this he had paid little attention until a short time before his admission into the hospital, when the difficulty in swallowing began to trouble him On examination the patient was seen to be thin and poorly nourished, cyanosis was present, but not in any marked degree In the epigastrium well marked and diffuse pulsation was visible, but palpation and percussion failed to define any tumor The whole area of cardiac dulness was increased, and a regurgitant murmur was distinctly audible both in the aortic and mitral The epigastric pulsation, together with the difficulty in swallowing, suggested the possibility of aneurism of the descending aorta, but this was rendered very doubtful by the inability to define a tumor, and also by the fact that the sensations of the patient placed the seat of œsophageal obstruction at a higher level than that which would correspond to the pulsating area A small esophageal probang was introduced, by means of which the obstruction was detected and overcome with comparative ease

The diagnosis arrived at was aortic and mitral incompetence, with cardiac dilatation The obstruction of the œsophagus was regarded as something quite distinct from the heart disease, and believed to be due to simple stricture from some injury to the tissues, probably by means of some corrosive poison, normal Heart muscle strongly contracted, of good as it is not an uncommon thing for chronic inebriates color, and held a firm clot The right subclavian to substitute mineral acids for alcoholic liquors when vein and the axillary veins held a little fluid blood | the state of their finances renders it impossible to

obtain the latter The treatment consisted in abso lute rest in bed, the careful administration of digitalis, nourishing chiefly by means of liquid food, and the passage of a probing twice in the week for the purpose of dilating the stricture Under these conditions the patient made some slight improvement, the attacks of dyspnæa were less frequent than formerly, although they occurred two or three times per week, and occasionally were so severe as to present all the appearance of impending death, but the esoph ageal obstruction remained unchanged, in fact, the passage of the bougie did not produce even the most temporary improvement, and therefore its cause remained a matter of doubt After he had been an inmate of the hospital for about three weeks the patient died

An autopsy was made by the interne physician, Dr B A Plant, who found all the chambers of the heart very much dilated and their walls thinned, the aortic and mitral valves were incompetent, but there were no signs of anturism The esophagus was entirely free from stricture in its walls, but that portion lying between the pericardium and the vertebre was softened and gangrenous The changes in other organs did not present anything of special interest bearing upon the case, there being only those which are most frequently met with as a result of chronic alcoholism

Was the gangrene caused by pressure on the œsophagus? In the absence of any other cause, and in consideration that the gangrene was limited to that part of the œsophagus underlying the heart, while the cervical portion was healthy, we are inclined to answer in the affirmative, nevertheless, the fact that the pressure must have been very much relieved with every contraction of the heart, and the frequency with which we have met cases of extensive cardiac dilatation, without ever seeing one in which deglutition was rendered difficult, would make us fain discover some other cause than that which was the only one here apparent - Sacramento Medical Times, January, 1888

CEREBRAL ABSCESS, TREPHINING, RECOVERY BARR reports the case of a boy, aged 9 years, who had had an offensive discharge from the right ear for a year, Three weeks before admission into the hospital he was seized with severe pain in the affected ear and side of the head, with a hot and dry skin, and vomiting and drowsiness symptoms continued for four days, the vomiting then ceased, but the pain and drowsiness remained Eight days from the commencement of the symp toms he had a severe rigor, which lasted fifteen He had six rigors before admission to the hospital, and the pain and drowsiness persisted There was a perforation in the upper part of the tympanic membrane, from which pus escaped Firm pressure over the mastoid produced pain Barr dermatic use of antipyrin in painful affections, in opened the mastoid cells by chiseling through the place of morphia, Frankel records his experience in cortex behind the auditory canal, and injected a the Deutsche medicinische Wochenschrift, No 41, weak solution of carbolic acid through the antrum and Hirsch gives a number of cases in the Berliner and tympanic cavity out by the external meatus, and klinische Wochenschrift, No 46, 1887 He used a also in the reverse direction A small quantity of 50 per cent solution in distilled water, a Pravaz

pus and caseous debris was washed out A drainagetube was introduced into the orifice in the bone, and iodoform used as a dressing Twice a day afterward an antiseptic solution was forced through the opening and drum in both directions Two days later he had a rigor, and the symptoms returned Five days later there was a sudden and copious discharge of pus from the ear All the symptoms subsequently became worse, and ptosis of the right upper lid appeared, and it was decided to trephine the skull The middle car was washed out with an antiseptic solution, and the scalp and neighboring parts care fully cleansed with turpentine and methylated A half inch disc of bone was removed from spirit the squamous portion of the temporal, at a point an inch and a half above and half an inch behind the centre of the external auditory meatus dura was opened and turned aside, the brain tissue immediately bulged into the osseous cavity, and rose above its external level A hollow needle was in scrted into the brain, and, after it had penetrated about three quarters of an inch, there was a sudden escape of foul gas, accompanied by a bubbling sound and the escape of some fluid. The needle was inserted a little farther, when pus of an offensive The aperture in the brain tissue odor flowed out was enlarged with a forceps, and portions of necrosed brain tissue were removed. The cavity was then washed out with a saturated solution of boracic acid Pus continued to ooze from the wound, and an aperture was then drilled into the base of the skull, just above the osseous boundary of the external auditory meatus, involving the squamo petrosal suture. The dura mater was here intact It was opened and the abscess reached A stream of boric acid solution was passed through this aperture so as to wash out the cavity of the abscess, and it made its exit freely by the upper opening The current was then reversed Chicken bone drainage tubes were introduced into both apertures, and the parts were thickly covered with boric acid powder and dressed with sublimated wood wool pads The wounds were dressed about once a week The softened brain tissue at the seat of the upper opening in the skull soon presented a mass of granulations, which increased in size and rose into the aperture in the bone, uniting with the layer which formed on the exterior of the The two soon became blended, and cicatrization rapidly progressed The child increased in flesh rapidly, and was at the end of six weeks quite Three months after his admission all secretion had stopped in the ear, leaving a dry perforation be-A vulcanite shield was fitted over the upper aperture in the skull, the lower one having com pletely closed -Archives of Otology, Vol 16, No 2-

SUBCUTANEOUS INJECTIONS OF ANTIPYRIN -Germain Sée recommended, some time ago, the hyposyringeful being injected into the subcutaneous connective tissue The syringe should be immediately cleansed by passing carbolized water through it sev eral times, or it will become obstructed by antipyrin The pain caused by the injections is very slight, and lasts but a few seconds, and as a rule, there is no inflammation at the site of injection

Hirsch records seven cases in which antipyrin was used hypodermatically 1 Woman, et 45, severe rheumatism of ankle and shoulder, half a syringeful of the solution injected over each joint. In three DR ALLEN J SMITH, of Philadelphia, says minutes both joints were entirely free from pain, which did not return 2 Woman, at 22 pains in ankle for twelve days, for which examination revealed no cause Syringeful injected near external malleolus, in three minutes the pain was gone, and did not return 3 Man, et 51, with severe rheu matic pains in the muscles of the head, back, neck and limbs, and with momentary pains in the lumbar region and along the course of the sciatic nerve Patient could not get out of bed, or even raise his A syringeful was injected, in the lumbar region of each side and in the back of each thigh In ten minutes the patient could raise himself with On the next day there were pains only in the calves of the legs, and half a syringeful was injected into each, the patient got up next day Woman, et 43, with severe pains in right breast, right pectoral muscle painful, and movements of right arm painful Syringeful injected over right pectoral muscle, in five minutes the pain had disap peared, and the arm could be moved freely, the pain did not return 5 Severe neuralgia in the temporal region, in a woman, was relieved by one injection in three minutes, subsequent history of this case not known 6 One injection relieved severe gastralgia in two minutes, the pain returned to a slight extent two hours after the injection Bronchial asthma in a woman, had lasted for a week, Half a syringeful injected on each at intervals side of the sternum during an attack, in two minutes the breathing was easy She had no more attacks, at least for three days, when she was last seen

Dr Captain, whose valuable paper in the Bulletin Medical is partly a resume of the previous observa tions of various physicians, including a good deal of matter contained in a graduation thesis by Dr Caravias, states that the solution of antipyrin in its own weight of water, though it may be used hypodermically, is painful, and he therefore adds fifteen parts of cocaine for every 1000 parts of antipyrin With this solution the injection is much less painful than when no cocaine is added The place where have formed thirty minims In dysmenorrhœa, and uterine pain the bismuth salt in dressing the sore generally, an enema (which is to be retained by the

is very strongly praised by Dr Captain, who suggests that every medical man can easily verify its remarkable anodyne power by a few simple trials doses he recommends are somewhat higher than those frequently given, thus he puts the dose for internal use at from 30 to 90 grains, and that for hypodermic use at from 15 to 60 grains -Lancet, Dec 24, 1887

Sub Benzoate of Bismuth as an Escharotic treatment of a phagedenic tendency in several cases of chancroids in the venereal wards of the Phila delphia Hospital, the writer, then on duty as a resident physician, became satisfied of the faulty character of the local measures, in that the escharotics usually employed were too severe for use, except with anæsthetics, and had to be applied too rapidly because of their excessive action Recalling certain characteristics of several benzoates, a combination of that acid with bismuth suggested itself as of possible service, and acting upon this idea, Mr Joseph W England, Chief Druggist of the Hospital, kindly prepared a quantity of the oxy- or sub benzoate Bismuth subnitrate was treated with nitric acid, heated and dissolved To this, hot water in small quantities at a time was added until a maiked opalescence was obtained, and the solution thus prepared added slowly and with constant stirring to a solution of sodium benzoate in water precipitate was collected, and washed with alcohol to separate any free benzoic acid or sodium benzoate, and then dried The chemical reactions upon which these steps are based, are in Mr England's opinion, probably as follows

BiONO₃ + 2HNO₃ = Bi₃NO₃ + H₂O Bi₃NO₃ + NaC, H₂O₃ H₂O = BiOC, H₂O₄ + NaNO₅ + 2HNO.

In the second equation the bismuth salt is precipitated and the nitrate of sodium and nitric acid separated in the filtrate, in which is present also a quantity of free benzoic acid After drying, a smooth white powder, of a relatively light specific gravity, was obtained This was employed in dressing the chancroids, just as iodoform or other antiseptic powders are used, the sore being carefully cleansed, a little of the powder was dusted over the surface, and the dressing completed with some simple bland ointment For a short time no sensation whatever was experienced, then a warmth of the part, and in about ten minutes a burning and tingling sensation manifested itself and continued for several hours-not severe enough in character to render the patient positively uncomfortable, except the needle has penetrated usually becomes slightly from excitations of the part, which were afterward raised and tender, and once or twice small abscesses controlled by camphor or bromide of potash admin-The usual dose employed by him is istered internally, or by adding a little morphia to

The dressing was renewed once or twice daily, patient) of warm water containing 75 grains of anti and the bismuth powder employed until the type of The action of this the sore had changed—within seventy-two hours in drug in relieving pain of very diverse kinds of origin the three cases under the writer's care, the unhealthy -e g, neuralgic, rheumatic, herpetic, etc, -whether purulent surface becoming clean and red with active given by the mouth, by the bowel, or hypodermically, granulation After this point had been reached

iodoform was substituted for the sub benzoate and the sores allowed to heal, which they did thoroughly and quickly

This material is undoubtedly a mild escharotic when thus applied, with a slow and continued action, and erodes the unhealthy tissues gradually and comparatively painlessly, thus avoiding the inconveniences of such powerful caustics as nitric acid and bromide. It was used as an occasional dressing for indolent leg ulcers with marked benefit, stimulating the sores into granulating surfaces, and cleaning them of the peculiar glazed coating such ulcers often present, just as an occasional application of nitrate of silver would do —Medical News, Dec. 3, 1887

THE VALUE OF TINCTURE OF STROPHANTHUS—DR HOCHHAUS thus summarizes his observations of the effects of tincture of strophanthus

- I For valvular weakness in the stage of compensation disturbance, tincture of strophanthus is an excellent remedy in certain cases, to retard, strength en and regulate the cardiac action The retardation occurs first, while the regulating effect only takes place, as a rule, after a few days Dyspnœa and ædema are promptly relieved. But the favorable effects, in about one half the cases, do not appear with the regularity and safety peculiar to digitalis, and in most cases in which strophanthus failed digitalis was effective Digitalis has, generally, a quicker and more thorough effect, especially in causing diuresis, while strophanthus affects a disturbed respira tion far more favorably It is more difficult to indicate strophanthus than digitalis in cases of valvular weakness, so that it is almost impossible to say beforehand in what cases strophanthus will probably be successful
- 2 In chronic degenerations of the cardiac muscle, with usually a small, frequent, and irregular pulse, great difficulty in breathing and ædemas, tincture of strophanthus may be relied on
- 3 In acute and chronic nephritis the effect of strophanthus is not so marked as in the above mentioned affections. The dyspnæa often yields to its influence as in the other diseases, but the diuresis and ædemas are not favorably affected by it
- 4 In cases of palpitation and apnœa of nervous origin strophanthus often gives marked relief
- 5 Œdemas of a cachectic character may be also favorably affected by tincture of strophanthus
- 6 In some cases the drug has secondary effects on the digestive tract, causing a loathing of food, followed by choking and vomiting after eating, and sometimes by severe diarrhea But, as a rule, the aversion to food is the only disturbance, and this passes off when the stomach becomes used to the drug
- 7 Hochhaus advises to begin with doses of gtt vj, t 1 d, in a tablespoonful of water or wine, and to add gtt 1j daily to the dose until the effect is ob tained, though it is not advisable to give more than gtt xx t 1 d Gtt 1j t 1 d 1s the proper dose to begin with for children, but the doses should not exceed gtt v, t 1 d

8 The effect usually appears on the second or December 3, 1887

third day, and generally lasts a week or two weeks, though there is considerable variation. Hochhaus has never seen a cumulative effect, even after long use of the drug

9 While strophanthus cannot lay just claim to all the praise bestowed upon it, it is valuable as an occasional substitute for and ally of digitalis—Deutsche medicinische Wochenschrift, No 43, 1887

LIGATURE OF THE EPIGASTRIC ARTERY—Injuries of the epigastric artery are seldom diagnosticated during life MARINI reports the case of a man, æt 28, who was stabbed, lost consciousness, and, when he regained consciousness an hour afterwards, com plained of great pain in the abdomen There was but little visible hæmorrhage, but his face and mucous membranes were very pale One of his wounds was in the eighth left intercostal space, penetrating the chest and abdomen, and the omentum protruded The other wound was 6 cm below the umbilicus, and 4 cm to the left of the middle line, and bled The diagnosis of injury of the only when touched epigastric artery was made from the seat of the wound, the free hæmorrhage when its lips were separated, diminution of the hæmorrhage on pressure above Poupart's ligament, and the presence of a considerable quantity of blood in the peritoneal cavity Marini cut down on the artery, and found it completely divided Hæmorrhage ceased when the two A piece of omentum, that became ends were tied prolapsed during the operation, was excised, and the wound dressed antiseptically The other wound healed by first intention, after the piece of omentum was cut off The patient recovered without bad symptoms — Lo Sperimentale, September, 1887

BRAIDED SILK SUTURES IN OPERATIONS FOR LACERATED CERVIN AND PERINEUM—DR J N MARTIN, of the University of Michigan, says I have used silk sutures in thirteen cases with exceedingly good results, and Prof Dunster has used it exclusively for two and a half years with most excellent results I claim for silk sutures

- 1 They are as easily introduced as silver wire sutures
- 2 Easier to tie silk and adjust the parts than to twist silver wire sutures
- 3 Much less irritation to the patient (especially in the perineum) while the sutures are *in situ*, which is important
 - 4 Removal of silk sutures is very much less
- painful

 5 Silk sutures give as good results as silver wire

The hard braided silk should be used for the sutures (about No 10 for the perineum, and a size or two smaller for the cervix), and should be rendered thoroughly antiseptic before and after waxing in bichloride of inercury solution (1 to 800 or 1 to 1,000) or carbolic acid solution. In tying braided silk one important precaution is necessary it is best to make the knot with a triple tie, and the last tie to be drawn down tightly or it may become united —Med. News,

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THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor

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A STATE BOARD OF MEDICAL EXAMINERS

It being admitted that the chief object of laws to regulate the education and practice of the medical profession is to protect the people by enforcing a fair standard of both general and professional edu cation for all who are allowed to practice any department of the healing art, it must be admitted, also, that a competent and efficient State Board of Medical Examiners is a necessary part of all such The education and conduct of the members of the clerical profession are regulated by the Conferences, Presbyteries, Synods, etc., of the several denominations, to some one of which every clergyman is supposed to be amenable, while that of the members of the legal profession is conveniently regu lated by the Judges of the several courts medical profession there are no such complete and authoritative organizations as those alluded to in the clerical, or such reliable and impartial tribunals as the Judges of the several courts for the legal, and consequently some different method must be devised for appointing and perpetuating the desired State Board of Medical Examiners in each State

After reviewing the practical results of all the various attempts to establish boards of censors in connection with medical societies, and State Boards of Examiners by appointment of judges of courts, or by the Governors of States, either on the nomination of State Medical Societies or without such nominations, we are satisfied that no better method can be devised, than to make it the duty of the Governor of the State to appoint all the members of the State Board of Medical Examiners, the same to be approved by the Senate proyided that no possess all the various attempts to establish boards of censors in confibroid tumors of the Paris, this paper, with Dr. W. E. Steavenson Medical Journal, of O. bearing on this subject in that they set forth to a specialty that is too read of Medical Examiners, the same to be approved by the Senate proyided that no possess all the various and by the great expectation.

be eligible for appointment on such Board who was not possessed of a good general and professional education and had been engaged in the reputable practice of his profession at least ten years should be no mention or allusion in the law or in any of its provisions to so called schools or theories in The appointing power should be limited only to the selection of men of known scientific and professional attainments and good character, and the Board itself should have but one standard of requirements and examinations for all candidates who may come before it When the Government, through the agency of its Examining Board, has secured to the people a medical profession all the members of which have given satisfactory evidence of having acquired a good general and scientific education, and a thorough knowledge of all the departments of medical science and practice, it has fulfilled its duty Whether the men or women thus found qualified and registered as legal members of the medical profession shall, in their intercourse with their patients, prescribe a large dose or a small one, or shall select their drugs in accordance with one theory or another, must be left to the judgment and conscience of each individual

It would be a good rule to make the State Board consist of nine members, each holding office three years, but eligible for reappointment. Whether the appointing power should be prohibited from appointing any person holding an official position in a medical college either as an officer or teacher, or whether he should be required to select one member of the Board from the faculty of every legally established medical college in the State, is a question concerning which there may be differences of opinion. Probably the first alternative would meet with the most general approval

ELECTRICITY IN THE TREATMENT OF FIBROID TUMORS

At the last meeting of the British Medical Association an interesting paper on this subject was read by the great exponent of the use of electricity in fibroid tumors of the uterus, Dr. G. Apostoli, of Paris, this paper, with one on the same subject by Dr. W. E. Steavenson, is published in the British Medical Journal, of October i. Two such papers bearing on this subject are particularly interesting in that they set forth the conservative principles of a specialty that is too much, or likely to be too much, an operative specialty

proved by the Senate, provided that no person should electricity to tumors of the uterus has been, in a few

words, to supplant the old methods of operating by a method that is precise, energetic, tolerable, better localized, thoroughly under control, and more scien-He made it precise by the introductifically exact tion of new galvanometers of intensity, exact coun ters and measures of the electric current, energetic by a novel service of high intensities of current, tolerable, notwithstanding the large doses of electricity, by introducing a new form of electrode, the wetted clay, thus making the cutaneous pole harm less, and permitting the transmission through it of a current of signal medical intensity, he localized it better by the direct application of the active pole, through the vagina, to the uterus, either in its cavity or into the fibroid deposits, and he brought it thoroughly under control by the exclusive use of the unipolar method, thus applying to the diseased uterus a continuous galvanic current of sufficient intensity and duration to produce the required effect application, generally inaccurately described as electrolytic, says Dr Apostoli, should be defined as a galvano chemical cauterization-a cauterization purely chemical, with two successive and distinct effects developed in the course of the current First, a tangible effect at the points of entry and exit of the current, which, according to the dose and duration, will be a chemical cauterization more or less severe (but not thermic), variable in conformity with the pole, and different in its character at the two poles At the will of the operator this polar action may be Second, the effect resulting monopolar or bipolar from the circulation of the current from one pole to the other, and therefore called interpolar action an action that follows every electrical application, setting up a subsequent process of disintegration of the morbid products through which it passes

But what are the clinical and purely practical results of Apostoli's method? Before going farther it must be said that the positive pole is the express remedy for hæmorrhagic fibroids, and the negative for non-hæmorrhagic-the positive being a hæmostatic, and the negative producing congestion both in their secondary interstitial action induce a regression of the tumor, Apostoli believes that the negative has the greater potency in this respect Further, if the negative pole be made to enter a fibroid deposit by a puncture, it will insure a more rapid diminution of the tumor, and the negative pole, naturally a congester and but little hæmostatic, finally becomes markedly hæmostatic, and will arrest troublesome hæmorrhage after a certain time, an effect caused by the cutting off of the supplementary circulation, by the rapid atrophy due to the of menstruation, dysmenorrhæa, amenorrhæa, nerv-

action of the negative current For the use of galvano puncture there are certain rules, that may be thus summarized 1 Absolute and regular antiseptic irrigation of the vagina, before and after each 2 Use as the puncturing instrument the operation small steel trocar or needle, and let the punctures be shallow, that is, not deeper than from 1 to 2 cm 3 Make the punctures on the most prominent part of the fibroid, whenever possible in the posterior cul de sac 4 Make the punctures without speculum Slide the trocar through the celluloid sheath that protects the vagina, after having examined and chosen by touch the point where the puncture is to 5 Ascertain the seat of any pulsation, so be made as to avoid wounding an important vessel case of unusual hæmorrhage immediately dilate the vagina with an expanding speculum, and if necessary put on pressure forceps to the bleeding point

In answering the question as to the anatomical and clinical results, as regards the material changes it may be affirmed, says Apostoli, that every fibroid tumor submitted to this treatment, sometimes after so short a time as one month, but certainly when the treatment is fully carried out, will undergo a manifest reduction appreciable by the touch and demonstrable by internal measurement diminution of the tumor, which continues for some months, varying in amount from a fifth to one half of the original volume, is generally associated with a coincident, and equal accumulation of subcutaneous adipose tissue on the abdominal walls regression of the tumor is not only apparent during the time of active treatment, but goes on continuously after it has been suspended, and is the persist ent proof of the enduring influence of the elec-Simultaneous with the decrease trical operations of the bulk of the tumor occurs the liberation of the tumor from its local attachments tumor, that at the beginning of treatment was immovable, is made to change its position more and more as the absorption of the enveloping tissues And with the regression of the tumor is advances a tendency of the tumor to separate itself from the uterus, to become more distinctly subperitoneal, to detach its mass from the uterine wall, and to assume The clinical are not more of a pedunculated form Apostoli less striking than the anatomical results generalizes the extent and importance of these results, by saying that 95 times out of 100 they comprise the suppression of all the miseries constituting the fibroidal symptomatology, which may be thus categorically summarized hæmorrhages, the troubles

ous disturbances, the direct pains in the growth itself and from mechanical pressure, and the harassing And while this theraseries of reflex actions peutical resource carries us so far as the sensible reduction of the fibroid tumors, and not to their total absorption, yet their complete removal may be anticipated, with a complete restoration of health The greater number of the women that persist in the necessary treatment are not only cured, but remain In some of his early cases Apostoli found an apparently absolute intolerance to high intensities of current, and he abandoned the method in these cases, at present he would simply chloroform the patients, and operate to the fullest extent regard to such cases he lays down the following rule No operator should admit the failure of intra uterine galvano cauterization before having had recourse to with or without an esthesia

From July, 1882 to July, 1887, Apostoli made 5,201 applications of the continuous galvanic current, for the following affections Fibroids of the uterus-polypi, entire or partial hypertrophies of the uterus, subinvolutions, acute and chronic me tritis and endometritis, ulcerations of the cervix, peri uterine inflammations (perimetritis, parametritis, cellulitis, phlegmons), ovaralgia, ovaritis and peri ovaritis, salpingitis, ovarian and tubular cysts at an early stage, atresia, and hæmatocele The 5,201 operations were made on 403 patients (this number does not include the patients on whom faradism was used) Of this number he lost two patients, the re sponsibility for which he takes upon himself, as well as of ten phlegmons that he either excited or aggra vated, and in speaking of these he takes occasion to warn against careless use of the method, especially of the negative pole when there is any trace of peri uterine inflammation present "You must feel your way, testing the susceptibility you have to work upon by two or three preliminary operations, in which you give doses so feeble that they only serve to enlighten you, and to habituate the patient, so as to lead on safely to the use of higher intensities "

MEDICAL SOCIETY PROCEEDINGS —We are pleased to receive good reports of the papers, cases and discussions presented to the medical societies in all parts of the country, and happy to publish them as fully as our space will permit Recently some societies have been sending us reports of discussions

comes of the papers or even brief abstracts of them Such discussions, without the papers or abstracts of them, to which those participating in the discussion are constantly alluding, lose half their value and often contain sentences unintelligible to readers of THE JOURNAL We must decline to use such reports

SOCIETY PROCEEDINGS.

MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA

Stated Meeting, October 12, 1887

THE PRESIDENT, JOS TABER JOHNSON, MD, IN THE CHAIR

Dr T C Smith read the history of the case and the galvano punctures, which we must enforce either presented the specimen, for Dr P J Murphy, of

A UTERINE FIBROMA REMOVED PER VAGINAM

Mrs McG, white, æt 40, born in Maryland Admitted to Columbia Hospital for Women, Sept 8, She is married and has had two children, the youngest 13 years old Had a miscarriage from some unknown cause four years ago and has complained ever since of considerable pain in back and hypogastrium, shooting down the legs For the past three years has had a profuse leucorrhœal discharge which was at times bloody and again very watery During the past three months the odor of this flow has been very offensive Menses regular and profuse lasting about four days, the last epoch having been in the latter part of August She has very frequent and severe attacks of intermenstrual hæmorrhage from the slightest causes, the most frequent being excitement, appetite poor, frequent attacks of diarrhœa and of severe headache She presents the appearance of a woman subjected to severe constitutional drain, the face has a pale and leaden hue kept in bed until Sept 11, when she was examined with the following results

The outline of the uterus not distinctly ascertained. but bimanually a large globular growth three or four inches in diameter was found slightly protruding into vagina from the canal of the cervix uteri Its borders could be followed into the cervical canal but owing to the size of the growth its attachments could not be definitely made out The watery discharge is now profuse and has an odor not entirely unlike that of carcinomatous discharges It was thought to be a pediculated fibroid of the uterus although the density of the foreign body was not marked. The odor now became so offensive that the patient was isolated This however was rendered unnecessary by a few hot carbolized douches The urine was not voided freely and it was examined, although nothing other than a

general diminution of salts was found

Sept 17 Dr Jas E Morgan came in consultation and advised early removal of the growth to save the woman's life It was thought best to improve her on papers that had been read, without including either general condition previous to operating and she was

given the following tonic sulphate of quinia, 30 formed October 2, 1887, without chloroform or an grains, tincture of chloride of iron, 4 drachms, to anæsthetic of any kind, and as far as any visible mix and take 30 drops in water three times daily Milk punch every four hours, beef tea, etc days later she had a severe attack of diarrheea accompanied by rectal tenesmus, which however soon yielded to ordinary doses of bismuth and opium

25 Iron and quinia discontinued Gave the following Make 36 grs of ergotin, 2 grs of extract of be sure to get an operation from the bowels, which cannabis indica and 1 gr of strychnia into 12 pills, to take one every four hours Menses appeared on the 28th and lasted until Oct 5, but not so profuse sleeps and nurses well, the stitches are out, and the

as usual although more painful

Oct 6 Growth protruded more and was attached on every side to cervical canal Uterus now felt distinctly and is enlarged, hard and of irregular shape, the lateral diameter being disproportionately increased

8 Patient anæsthetized and the foreign body removed It was first drawn through the vulva (the patient being in the lithotomy position), and its ses sile pedicle which was found attached to nearly the was not one of those that underrated the achieveentire surface of cervical canal and fundus uten, was severed by Thomas' saw scoop, Yarrow's modification, very little hæmorrhage occurred as the hard upon this region of the body when absolutely necesfibrous pedicle was sawn through

The uterus and vagina were washed out by a carbolized douche at a temperature of 110° F, and a pledget of styptic cotton placed against the cervix Some oozing began about an hour after the operation but soon ceased Patient was very weak but improved rapidly after the oozing ceased and is apparently making an uninterrupted recovery tumor removed is globular having a circumference of about 8 inches in every direction and weighs 6 oz

The President read a letter from Dr Alex Dun LAP, of Springfield, Ohio, in which he gives the following interesting case

A LAPAROTOMY ON A FEMALE CHILD NOT AN HOUR

The child was perfect in every respect, vigorous and healthy, except that the bowels, commencing close to the duodendum, down to the sigmoid of the colon and omentum, with the mesentery, dragged through a small opening in the umbilicus, and had been developed in a sac formed in the umbilical cord The sac would have contained about a pound and a I found that it was impossible to return them through the opening without enlarging it, and then when I commenced to enlarge the opening I found that the abdominal cavity was so contracted from medical treatment the absence of the bowels being developed in it that it would not contain them without enlarging it I therefore made an opening, commencing in the umbilicus, running up two inches, and then began stretching the walls of the abdomen with my fingers, then catching portions of the bowels and forcing them down into the cavity, while assistants, with the operation hooks passed through the cut edges of the walls of headache are continuing for three years after the the abdomen, held them firmly up In about twenty operation minutes I succeeded in forcing them in and closing being performed far too frequently, and that it was the wound with five sutures and ligatures to the cord time for the profession to call a half and forbid such close up to the natural skin The operation was per- unnecessary operations

signs were manifested by the child in struggling, cry-Three ing, shock or pulse, that it was suffering pain there was none to be seen For all that you could see the child might have been enjoying the operation hugely, nor has there been the least unpleasant symptom I gave it a small teaspoonful of castor oil to operated freely I have given five or six doses of one-third of a drop of tincture opin cord is separating nicely How long after birth be fore the nerves of sensation are brought into action? They were certainly not in action when I performed this operation

DISCUSSION ON BATTEY'S OPERATION

DR ROBERT REYBURN, in opening the discussion on the case of Battey's operation reported by Dr Jos Taber Johnson at the last meeting, stated that he ments of abdominal surgery, on the contrary he was a firm advocate for the performance of operations sery for the saving of the life of the patient, or for the removal of the ovaries when hopelessly and in The case reported (on examina curably diseased tion of the ovaries removed) showed that it did not belong to either of these two classes, and hence was not a proper case for operation In his opinion the cases properly and absolutely requiring this operation were very rare, and in an active practice of thirty-one years, he had never operated upon a case, nor had he seen one that he considered required it He had, however, witnessed the operation a number of times and the results were, in his opinion, not at -Some of the patients, it is true, all satisfactory were cured, but in a great proportion of the cases the operation was either a failure or followed by periodical pelvic pains, attacks of neuralgia, etc, which rendered their condition as bad as before the operation The technique of operations upon the abdomen had become so perfect, and the risks of the operation so diminished by the improved antiseptic methods, as to induce the performance of an immense number of operations that should never have been In his experience the patients that deperformed sired the operation belonged to one of two classes, either obstinate cases of dy smenorrhœa, or, perhaps, of evil habits, and who required as much moral as He called attention to a paper by Dr Coe, published in the Medical Record, Dr Coe states that he of September 24, 1887 has known severe pelvic pains, neuralgia, flushings of face and other vaso motor disturbances to occur at the time of the former menstrual period, and in these cases their condition was worse than before Two cases of violent congestive He believed that the operation was

the Pennsylvania Hospital for the Insane for recur-|ful rent mania, came under his care about one year after She had previously been under his charge and not having improved she went to that hospital and her ovaries were removed. Success was apparent and she was removed from that institution In a year's time the attacks of mania recurred with their former There was no return of menstruation She came under his care four or five times after this It was near the menopause as she was 40 or 45 years old, but she kept on having the attacks She would improve and leave the hospital, but would return in a month or two as bad as ever The artificial meno pause was produced and her general health improved

Bearing on insanity A young girl, about 12 or 13 year's old, was under his care in 1876 and '77, for about eighteen months Menstruation was not es tablished It was as pure a case of moral insanity as had ever come under his care For sin and in iquity she took the lead, at times the attacks were aggravated, and she was always erotic Restraint was used, anodynes and an esthetics were given, and all treatment seemed baffled Every means of reformation was tried in vain, and the mother's use of the rod was fruitless He lost sight of her She was removed to the Worcester Hospital for the Chronic Insane, under Dr Quimby, whose opinion coincided with his, and she was advised to go home on account of a great aversion to hospital treatment The menstrual function appeared but she became Finally she fell into Dr Goldsmith's hands At a meeting of the Superintendents of Institutions for the treatment of the Insane, Dr Goldsmith read a valuable paper (Journal of Insanity, 1883) bearing on this case Dr H R Stohrer was invited to dis cuss the subject of Battey's operation and he recommended it in this case It was performed and the girl resumed her natural, amiable disposition year after she was perfectly well After such a result he felt anxious to hear from those present the changes wrought in menstrual conditions by the removal of the ovaries Of course we must not be led astray by extreme cases Several cases are on record of the removal of the testicles for nervous derange

DR T C SMITH regretted that Dr Reyburn had condemned the operation simply because it is some times performed unsuccessfully or unnecessarily in one class of cases In other cases it is justifiable A woman has dysmenorrhoea for years and years, she goes from specialist to specialist without receiving any benefit, and after years of fruitless treat What would Dr Rey burn do in such a case? How long would he wait?

DR Godding had come to the Society to learn an extra uterine pregnancy, but she went to term and not to hear an experience that was practically Six months ago he examined the same woman and A woman, who had had her ovaries removed at found the left ovary the size of an egg and very pain-It does not yield to treatment Is this a case for operation? The size does not demand it but the pain is increasing Suppose Dr Reyburn has a bleeding fibroid that has resisted all other treatment would he refuse to establish the menopause by removing the ovaries? Or suppose he has a pyo salping would be permit it to rupture? What would be do in such a case? He should be more explicit

DR REYBURN regretted that he had not been understood He considers the first case mentioned by Dr Godding a clear case of the abuse of the operation (?) A great many operations are performed when the disease does not threaten life. The ovaries are removed when there is no appreciable disease but only the evidence of a perverted function the woman were going about would he remove the ovaries simply because she had a pain in her side? No Such is not a case for operation. If the disease goes on, yes Loss of texture such as to endanger life, and bleeding tumors may justify the operation It is not always justifiable in bleeding fibroids Better dilate the uterus and remove the fibroid Nowadays surgeons and gynecologists must have a few ovaries in their pockets to be fashionable

DR FRY asked, From the history of the case and the specimen presented was the operation justifiable? The speakers had confounded Tait's and Battey's operations The former removed the tubes and ovaries for a pathological condition, and the latter simply to establish the menopause artificially without regard to disease of the organs themselves last meeting of the American Gynecological Society, Dr Polk expressed the opinion that the operation was not called for, Dr Martin, of Berlin, cured his cases by other means, and Emmet let the ovaries After Dr Johnson had loosened the adhesions the operation should have ended and the abdominal wound have been stitched If the operator finds healthy tubes and ovaries he is not justified in removing them The question is whether these cases can be relieved by less violent means In this case the operation was scarcely justifiable and Dr J should have been satisfied when he saw the ovaries were in such good condition with breaking up the adhesions and leaving them

DR KING When the operation was first introduced the dangers were anticipated and stated is too frequently performed where it is not absolutely necessary, but we are all human and hable to err Battey's operation has had its day as a fashionable surgical procedure Years of practice and experience have enabled surgeons to formulate better rules ment she falls into the hands of the surgeon who has for its performance than they had at the beginning removed the ovaries in women similarly affected and At the last meeting of the American Gynecological Society, Battey stated the results of his operations some were not cured, some were only benefited a He has a case that will ultimately call for the removal little, while the majority "bounded like an India-She became pregnant three months rubber ball, into health" Women hear of others after marriage She was suddenly seized with a pain being relieved and go from one surgeon to another in the left side and discovered a lump as large as a until they find one willing to operate, and he probahen's egg She called in a physician who suspected bly removes the healthy ovaries Dr Polk opens the

abdomen, breaks up the adhesions and leaves the at hand. They go from doctor to doctor, undergoing healthy ovaries This is an advance and does not mutilate Some are relieved by time ago Dr Johnson suggested Battey's operation in an old maid She afterwards came under his care was near the menopause, he used Goodell's method failure Of course he had made a mistake but this of dilatation, and she had a delightful relief for two or three months at a time. The loss of the ovaries makes very little difference in those who do not contemplate matrimony, but these organs are of great He does not recommend every ovary to be removed consequence to poor women in whose family there is an entailed estate The most interesting and important question of gynecology is the reason for women having such diseases, as cysts, as to call for such mutilating operations. Have we no means of prophylaxis?

DR KLEINSCHMIDT There is one interesting point raised by Dr King Why do women of this age have cysts and other diseases of the ovaries? They are not more frequent in this age but abdominal surgery has advanced so far that they are easily detected The ancients found diseased ovaries but did not understand them Hyrtl has a work on spaying women an which there is a case of a man spaying his daughter Dr Smith's first case should have received the galvanic treatment and if that failed preparatory laparotomy Twenty years ago, in discussing ovariotomy, he remembers that Dr King advanced the opinion that the time would come when we would be able to tell these growths with certainty It is easier to operate at an early period of the disease ovary in Dr Smith's case is diseased let him find out what is the matter with it

Dr Bermann The question raised by Dr King is an important one. If the women of to day suffer more than those of former times he thought it might be attributed to two causes, viz constipation and tight lacing

DR FRY had had a case under obsevation for six or seven years The woman was 32 years old and one ovary was prolapsed into the cul de-sac would put her into the knee chest position, relieve the retroflexion and tampon the vagina She was She would confined to the bed most of the time get better and the treatment would be discontinued She returned several months ago and he determined He has been using the galvanic to try electricity current about two months, but has also used the She has improved and the ovary is smaller, but he is not certain that the electricity is entitled to He has considered removal of the all the credit ovaries but the woman's family oppose it sometimes die and if one were his he thought his conscience would bother him

DR JOHNSON had not intended to say anything as the members understood his opinion on this subject His views have not changed He has reflected on every case before he operated because he did not The President, S Pollak, M D in the Chair He sees a great many cases but desire to be rash does not operate on half the women who desire to have their ovaries removed In some respects he agrees with Dr Reyburn, but would not take the The majority of women he sees are chronic sufferers and cannot be cured by the means nose and hips being developed to a less degree They

various methods of treatment, but grow worse, Sometime everything fails and they are willing to run the risks of this operation He might operate and the result might not be as good as he expected, or an absolute should not lead him to abandon the operation, be cause mistakes are made in all branches of surgery, and yet they are considered perfectly justifiable Battey's operation is for the removal of the normal ovaries and was called normal ovariotomy operates to bring on the menopause and that was his motive in the case reported It was a matter of dol lars with poor women, many of them are bed ridden for months and have tried all sorts of treatment without benefit and their only hope seems to be in the removal of the ovaries He holds that the operation should not be performed until she has had all the ad vantages of general medicine Give electricity a fair trial He has received letters filled with grateful expressions from women he has operated on who are now enjoying excellent health In a case Dr Ober is now attending the woman was relieved for a time but is now growing worse Perhaps the convulsions are due to a third ovary Of the 54 cases presented by Dr Battey, 33 were cured, 8 much improved, 5 a little improved, and 8 not at all improved these 54 cases there was complete menopause in 50, and continued menstruation in 4 Tate removed the ovaries in 50 and produced the menopause in every Dr Godding's experience case and cured them to is nil, one case did well and the other is cured would remind Dr Fry that Dr Polk did not have everything his way in the discussion referred to Dr Goodell opposed two operations instead of one Dr Bantock agreed with Dr Goodell that the alternative recommended by Dr Polk was not the correct one The operator does not desire to unsex the woman, He has a patient the disease has already done that under observation at present who is sane for three weeks out of every four, but during her menstrual period she is a confirmed nymphomaniac and uses He is in doubt as to the the most vulgar language proper course to pursue Dr Godding's successful case prompts him to operate It is true Goodell's asylum patient died, but the hygiene of the institution may have been bad, and if she had been out she might have been cured If the trouble seems to be connected with menstruation the proper procedure would seem to be to produce the menopause

ST LOUIS MEDICAL SOCIETY

Stated Meeting, November 5, 1887

DR T F PREWITT presented a case of MULTIPLE TUMORS OF THE HEAD

The case is of a gentleman whose head is covered with a number of tumors, some on the forehead, are extraordinary in many respects, and would tax the skill of many diagnosticians. He has had them for twenty five years. They have not impaired his health, but are merely annoying

If there had been only one of these tumors, I would have been impressed with the idea that it was a sebrceous cyst, because it fluctuates distinctly Then it occurred to me But I have excluded that that possibly it was sarcoma, but the history is not that of sarcoma, which is of rapid growth, and pri mary sarcoma of the skin is a rare thing looking at the development on the face and the char acter of the skin, which the gentlemen will notice is muddy, that condition which we so frequently see in young persons subject to affections of the sebaccous glands, it occurred to me that it was in adenomatous condition, that the glands of the skin were involved But that was not entirely satisfactory to me, the tu mors are very vascular and bleed quite freely one which I cut off I had to arrest the hemorrhage with pressure and applied the electrolytic needle Professor Bremer and Dr Rohlfing examined sec tions from it and pronounced it adeno sarcoma great vascularity suggested to me that there was some sarcomatous degeneration, and I expressed myself to that effect The next question is, what can be done? I propose to try electrolysis on some at least, and endeavor to get rid of them, even if reproduced If it was a single tumor I would not hesitate to cut One or two of them have been cut out, and he thinks they have not grown again, but they can be seen to be growing at the base of the cicatrix He does not know how they first came He 15 52 years old

DR A H OHMANN DUSMENIL The disease is not one, because we have in the lower part tubercles, and in the upper part masses undergoing cystic de generation, or through pressure the skin becoming I don't think it fair to ask a diagnosis without giving a specimen for examination look like lipomata, others like fibromata, whilst oth ers have some hardened matter, which may be inspissated sebum or calcareous degeneration of the tis It is not a pure case of fibroma of the skin, as that is generally multiple, and more or less pedun Nor is it lipoma or lymphangioma, which the lower portion simulates. I do not remember a sımılar case There is involvement of the subcutaneous connective tissue

Dr E H GREGORY We understand that these tumors are not growing, therefore these masses are performance wanting in one of the essentials of a tumor, namely, indefinite and continuous growth We do not recognize any overgrowing mass as a tumor unless it grows continuously, indefinitely, and whenever a mass comes under our observation that has existed for months without any material change in its bulk, it becomes a question whether it is a typical tumor or not If we are looking for a cause of these masses, I would attribute it to a vegetable parasite, or some agency of irritation, and I would place it in that class of diseases, the so called granulomata As for adeno sarcoma, that means nothing more than over

tissues, involving perhaps more than one element of The question is, is it an overgrowth after the skin the method of a tumor, or an overgrowth from irritation? I would place it among the latter

DR F I Lutz reported a case of

CUNSHOT WOUND OF THE INTESTINE

The case occurred last Saturday night et 30, was shot by another with a revolver carrying a 38 calibre bullet, the ball entering 34 inch below the umbilious in the median line. He was taken to the City Hospital The abdomen was distended considerably, there was resonance over the liver, indicating that gas was in the peritoneal cavity, a long probe entered the cavity in a downward, outward and backward direction to the right was considerable pain On opening the cavity, we found that very little of the contents of the bowel In were in the peritoneal space, as the intestines were The jejunum had six openings in it, and the empty The mesentery was cut in two places, ileum two and the parietal layer of the peritoneum covering the posterior side of the cavity to the right of the common thac artery had a rent in it which was the beginning of an opening which ran down toward the The openings in the bowel were united with silk (iron dyed) sutures, and the others with catgut The opening of the ileum being so near the mesentery, I concluded that the continuous suture going clear around the bowel would be the most rapid and equally as safe a method of suturing it The bullet was not extracted ante-mortem large blood vessel was wounded The patient died. The openings which had been sewed I found perfectly water tight at the autopsy This is another illustration of what I have endeavored to express on several occasions, that penetrating wounds of the abdomen should be treated with free opening One point in the technique is that the long continuous exposure of the intestines to the air is no mean factor in determining the fatal issue of the cases Perhaps it would be more perfect if some means could be invented to keep the intestines at a proper temperature—and it is necessary to expose them well in order to sew up a rent in them—and the ordinary clothswrung out in hot water cool so rapidly that they have hardly any influence in keeping a proper tempera-In this case we irrigated the cavity with hot Whilst the proportion of recoveries after this operation is small, still it is large enough to favor its

DR Lutz also reported a case of

TRAUMATIC PERITONITIS

The patient was kicked six weeks ago in the left groin, by a cow, and as a result the glands of the groin inflamed and suppurated, and I removed a nest of them I removed those on the line below Poupart's ligament Subsequently several of the glands high up inflamed I made an incision and cleaned out the cavity and united the two incisions by a drainage tube The man's general condition was bad He seemed anæmic, had chills, but never complained of trouble in the abdomen until two growth of the glands of the skin and its connective days before death, nor was the abdomen distended. He was not under the influence of opium and a half before death he had a chill and high fever, his abdomen became distended, very painful, and he the inside of men's bellies in these cases, the more went into a comatose condition, and died 36 hours after I first observed that the peritoneum was in-On opening the cadaver I found a typical case of peritonitis, septic, coils of the intestine glued together with exidate, and a small hole half the thickness of a pencil, ulceration had taken place laparotomy. When there are urgent symptoms that through the wall of the abdomen, so that if laparotomy had been performed in this case, and the cavity thoughly cleansed. I think his chances would have been better

DR LUTZ also reported a case of

LAPAROTOMY FOR TYPHLITIS

The man came into the hospital on Tuesday, he had a tumor in the right iliac region, about as large as an ordinary fist He had had it for several months and it was very painful and tender We had him in the clinic on Wednesday, and after he left it peritonitis set up, which increased and became violent that you can put your finger in thereafter. This morning there was stercoraceous necessarily fatal will be attended to The pulse had been 115 and full, but this vomiting morning it was 100 and full the side, dulness extending to the right inguinal re-On opening it an immense quantity of pus escaped, pus of a fæcal odor The coils of the jejunum and ileum were matted together by evudation, and on the right side the omentum was so firmly bound down in the neighborhood of the internal ring of the inguinal canal that when I felt with the fingers people recover that have extravasation, the result of and found a cavity that contained pus, and this was gunshot wounds of the intestines I have yet to see so firmly adherent, I thought that there was in addition a strangulated hernia However, I could pull intestine that is agglutinated and shut up On the it out readily, and we washed it with a flush of hot water We found a knuckle that was the point strangulated, a part of the gut bent on itself and united by exudations, and glued to the anterior abdominal wall in front of the bladder There was considerable bleeding, caused by the separation of the intestines necessary to find the strangulated portion patient died, as we expected I believe it was one of those cases in which an early operation would have given him some chance. If it was a perityphlitic abscess at first, a lumbar incision might have Perhaps these operations are not trisaved him umphs of the surgical art, but they teach valuable The first the lack of proper appreciation of the surroundings of the case, the lack of masterly The third indicates that early incisions should be made to prevent complications such as came up in this case

DR E H GREGORY presented by the first case before the operation?

strong, temperature good, the abdomen was distended, then-which to me was the best indication of what should be done—the probe passed to such forming laparotomy, allow him to die in peace a distance into the peritoneal cavity There was no fæcal matter in the abdominal cavity

the cavity! Here are three important points I am laparotomies which I have made for gunshot wounds an advocate of the operation, but I have never cut of the abdomen, once seen the intestine escape

A day loose from the traditions of the profession I am a link between the two methods The more I see of I am disposed to hesitate about opening them Every case says to me, "go slow" This case had a good pulse, good temperature, and there were no urgent symptoms But there was a penetrating wound A penetrating wound of the belly is not a warrant for declare that the patient cannot be worsted by the operation, symptoms that make us feel that he will not recover, he has intense pain, vomiting, symp toms that look towards collapse, we should operate But if the man has a good temperature and pulse, and a penetrating wound of the abdomen, with my limited observation, I should hesitate, I should wait I have long been impressed with the belief that the simple fact that the intestine is wounded does not carry with it the absolute certainty of extravasation From actual sight, it is known that many wounds of the intestines heal without extravasation-wounds A wound that is necessarily fatal will be attended with symptoms

Of course no one has greater admira There was a tumor in tion for any view Dr Gregory may express than I However, there seems to be a radical difference of opinion in this case Never, in a case of penetrating wound of the abdomen with the symptoms that Dr Gregory indicated, should a surgeon perform laparotomy, because the patient is going to die any how, he has septic peritonitis I don't believe that on the post-mortem table a gunshot wound of the contrary, I find fæcal matter, inflammation, etc The best possible condition for the recovery from any operation is that the patient is in the best physical condition, pulse and temperature good, before the changes that necessarily result in death have had an opportunity to begin, before fæcal matter has had time to be carried across the peritoneal membrane The time is unquestionably then, when the wound is Again, the mere performance of first inflicted laparotomy after an incised wound does not imply If a man has a more than an explorative incision simple wound of the abdominal parietes, whether it penetrates or not-as I have seen in a case in which there were no symptoms, when the wound was enlarged, a knuckle of the intestine or a piece of omentum was in the wound, the internal end of which was four times as large as the external one The simple enlargement of the wound does not add What were the symptoms gravity to the case, but it does that which is of the utmost importance—it enables the surgeon to ap-His circulation was good, pulse was proximate the peritoneum, to sew up a rent in the If we wait until bowel, or ligature a blood vessel the urgent symptoms appear, there is no use in perwould like to ask Dr Gregory in how many cases of gunshot wounds of the abdomen he has seen the in-And there was no hæmorrhage in testines escape? I have never, in perhaps twenty

I was present at the DR A H MEISENBACH of the wound and the direction of the bullet, and an opinion based on the facts and teachings of experi mental surgery by Senn, Parkes and others in relathose cases in which to perform laparotomy. If the general disturbance of the circulation one of the best subjects for recovery, but as the op that he would ultimately have succumbed speeds, and character of wounds they produce wounds nearest the skin were clean cut wounds Those near the right wing of the ilium were ragged ones, one or two in which peritoneum and muscularis of interest to the discussion, and I think is is a forwere entirely torn away, leaving a valve like opening tunate thing we have a man like Dr Gregory, who in the mucous membrane It seemed impossible stands a little in the breach, because abdominal that with such injuries the patient could recover surgery is a new field, and rules in relation to it are without having those wounds closed up amount of extravasation must have been very little, wounds there seems to be not much room left for the bleeding was very little The danger generally is not from arterial, but from venous hæmorrhage, that occurs from the mesentenc veins

In regard to the technique, the length of time is, the result In this case the patient was on the table from 11 30 PM to almost 3 o'clock in the umbilicus, and he walked home morning, because the search for, and closure of, the ploration with the probe wounds was necessarily very tedious The continuous suture fulfils everything that is demanded of it, and closes the opening so that nothing will exude, can be more rapidly applied then the Lembert or its modifications, and any one can demonstrate this in shot wound of the intestine ever got well an anımal be easily adjusted, it is the ordinary glover's suture Anyone that has tried it knows how tedious the Lembert suture is a difficult operation

Dr Spencer Graves jority of cases, whether there is a wound of the in- cover after gunshot wounds of the bowel testines or not Bull, he removed sixteen inches of the intestines, infliction of the wound, after this, there is a degree and the patient made a perfect recovery

DR H C FAIRBROTHER I have recently seen The urgent symptoms that Dr Gregory two cases of gunshot wound of the abdomen, and has described were not present, jet the history of the symptoms were identical, the wounds were in the the way in which the wound was received, the caliber same place, being one and a half inches below the umbilicus, both cases resulting from shots at short range from revolvers of 32 caliber In both cases the penetration had a downward course tion to the proper course to be pursued in gunshot the pulse was good, there was little, if any collapse wounds, indicated that this was certainly one of There was no great pain, no marked symptoms of lesion had not been so severe this would have been these cases no operation was performed, perfect rest was maintained, the abdominal surface was covered eration demonstrated, the lesions were so severe with warm carbolized applications and recovery en-In the other case an operation was performed, The sued case presented several interesting points, one of three penetrating wounds of the small intestine were which was one that Dr Parkes called attention to, found and united, and the patient died I don't in regard to different missiles moving at different know whether there were penetrating wounds in the The first case or not, but the bullet was of a similar size and force and direction

I have listened with a great deal DR PREWITT The not certain yet. Yet with the experience in gunshot any other procedure It must be remembered that the course of bullets is very eccentric, and many bullets that strike the walls do not penetrate the cavity, and the patients get well, when it is supposed of course, one of the prime factors that influence that they have gunshot wounds of the bowel I saw a little boy who was shot a little to the right of the I made a little ex-He declared that the bullet dropped out and I let him alone and he got Such might have been the case in that of Dr well Fairbrother In the statistics of the late war, Dr Otis has shown that not a single, solitary case of gun-The continuous suture is one that can cases in which it was presumed that the cavity was entered got well, but not where it was certain that Of course if we find fæcal matsuch was the case In a wound of one inch it takes ter, it is irrefragable proof of the perforation from four to six stitches to close it, and with the we have cases where there is a wound of the inteshands smeared with blood, the tying of the suture is times, and yet there is so little evidence, so far as The continuous suture of the shock is concerned and the absence of meteorism, bowel answers every indication, and even in circular that it would be impossible to say that there was a section of the bowel, it can be adjusted in such a wound of the intestine if we would wait for sympway that the bowel can be brought together without toms If Dr Fairbrother could kill his patient and Experiments have shown that it takes a examine that abdomen, and demonstrate that there very short while for the plastic exudation to close up has been a perforation of the intestines, and find the holes from which extravasation may take place that they had healed, it would be one of the grandest It seems to me that there achievements of the day Until that is determined, are certain symptoms that would tell us in the ma- we must accept it as a rule, that patients do not re-The tympanitic resonance, the so absolutely fatal in gunshot wounds of the large incharacter of the pulse and the shock—but this is testine. Where the symptoms that are to be relied not always a result—I think would determine almost upon as positive evidence of perforation of the positively in the majority of cases When there are several wounds of the bowel near together, it is a It doesn't require to open the abdomen to know question whether it would be better to resect the in-testine, or to close the several openings In New wound and determine the fact prior to any lapar-York last year, I saw a case operated on by Dr otomy It must be done within five hours after the

of congestion that indicates septic peritoritis, con the vaginal portion. This patient was 28 years old, sequently, you have to deal with a condition which and in spite of her being a nullipara the operation is most unfavorable So far as inferior animals are concerned, quite a number of cases have recovered where the intestines were injured, but this is not a criterion, because they will stand more than human In regard to the closure of wounds, Dr Parkes has shown that it is better to resect a portion of the intestines than to close a number of wounds The modified Lembert stitch can be done as rapidly as the ordinary whip-stitch, and is quite as effectual

CHICAGO GYNÆCOLOGICAL SOCIETY

Regular Meeting, Friday, September 24, 1887 THE PRESIDENT, CHARLIS WARRINGTON EARLY, M D, IN THE CHAIR

DR J H ETHERIDGE read a paper entitled VAGINAL HISTERECTOMI, REPORT OF THREE CASES (See The Journal, December 24, 1887)

DR CHRISTIAN FENGER made some remarks on CARCINOMA OF THE CERVIN

The first specimen was from a woman about 40 years of age, a multipara She had had symptoms for over a year, and was in rather an emaciated condition, partly on account of chronic bronchitis and a cystic goitre, and partly on account of the carcinoma, where several local operations had been done It is a cervix carcinoma, with the cervix involved almost to the internal os, the white mass here below being the carcinoma tissue, and all the rest of the cervix being carcinomatous The only thing that induced me to operate in this case was the extreme movability of the uterus As a rule, in carcinomata that have gone as far as this, I do not think operation is advisable, I think it is too late. However, she was not asked by me to be operated upon, but she im plored me to operate on her at any risk to her life, Before the operation her pulse was and I operated 120, and she was, as I stated before, weak, but the that she was very fleshy I think that in a very fleshy uterus was movable and was taken out without any considerable difficulties Before the end of the operation, which lasted about two hours, she was very the nates weak and almost pulseless after the operation during the afternoon, and in the the uterus, which, however, has not given rise to any evening her pulse was 170 and scarcely countable She did not lose any quantity of blood to speak of I made a saline infusion of 12 or 13 ounces into the brachial vein, afterwards the pulse got stronger, and continued so from that time, and there was no further trouble during her recovery

The next specimen is a portio carcinoma extending about an inch into the cervix on the posterior It is a portio carcinoma because it has the greatest extent down at the vaginal portion, and becomes smaller and smaller as it goes up in the cervix If we have a cervix carcinoma that opens down in the vaginal portion, we should expect to have a operation difficult and long, so that at the end of the larger cavity in the cervix and a smaller opening in operation I did not care to lose time in uniting the

was very easy. Inad here, as in all of the cases, to dilate the vagina posteriorly, but otherwise, evidently on account of the small size of the uterus, the operation was easy—so easy that there was no cause for either ante of retroversion while taking it out, it was just held down, and the ligaments ligated case the operation was so easy that I united the pen toneal as well as the vaginal wound, closed them up together with a row of sutures, commencing in the anterior forms, going through the anterior pentoneum, the posterior peritoneum, and out of the posterioi fornix, thus closing up by one row of sutures the peritoneal and the vaginal wound In the other case, I closed the peritoneal wound and left the vagi-The drainage used was iodoform nal wound open She made the most undisturbed recovery of all of them, never had a rise of temperature nor of pulse, and never had any pain The tubes and ovaries were not removed

The third case is a small portio carcinoma, extend ing but slightly up in the cervix, and can be seen on She had previthe posterior surface of the uterus This uterus was perfectly ously had perimetritis movable, but the operation was not easy, as the loosening of the bladder from the uterus was difficult, while in the first two cases it was easily detached with But here, perhaps on account of the pre the finger vious perimetritis, the tissue between the bladder and uterus was so dense that it had to be cut with the scissors, and I made a small opening into the bladder, which was united at the time it was cut, and did not leave any bad results, not even a temporary fis tula, as no urine passed at any time down into the Her recovery, was uninterrupted vagina

The fourth specimen is another portio carcinoma on the posterior lip, reaching up in the cervix per-The patient was a multipara, 28 haps half an inch years old, and quite fleshy Contrary to my expect ations, the operation was extremely difficult vagina was not unusually narrow, but I think the dif ficulty of the operation was due partly to the large size of the uterus, and partly on account of the fact person there is some little part of the vagina nar rowed by the subcutaneous tissue on the inside of There was here the same difficulty as in This condition lasted the previous one about separating the bladder from passage of urine into the vagina I operated accord ing to the method of Leopold, loosening the lower part of the broad ligaments first, and then going up until there are no firm bands left on the sides of the When that is done, and the anterior fornix uterus loosened, as a rule the uterus becomes so movable that it comes down an inch or an inch and a half or two inches into the vulva, so that the rest of the operation is comparatively easy But in this case it There was an unyielding con did not come down dition of the lateral ligaments What the reason was Of course, this condition made the I do not know

cavity open, using for drainage iodoform gauze there packed up in the peritoneal civity This patient did not have an uninterrupted recovery She had a temperature for a couple of days of about 1015°, later on 100° now it is down below 100° pulse was up in the neighborhood of 120 all the time, until now it has finally gone down. In this case I had to change the gauze packing at the beginning of the rise of temperature, taking it out and introducing a dramage tube so as to be able to wash it out every washing out was performed early, the fluid has gone up into the peritoneal cavity and caused general infection

Dr Merriman Do you think that if you had nave saved her much?

Dr Fenger I must confess that I believe in closing the peritoneal wound as a matter of safety The specimens here show one point, namely, that a strict line, as Ruge and Veit have pointed out, between portio carcinomata and cervix carcinomata does not exist. They say that a portio carcinoma very rarely extends up into the cervix. If that is the case it would, of course, not be justifiable, in many cases of simple portio carcinoma, to do anything but the partial operation Fritsch has called attention to a fact which these specimens show very distinctly that is, the difficulty of finding out if a portio carci noma is limited to the portio proper or extends up into the cervix, or even into the cavity of the corpus

I might say a few words in regard to the manner of operating It is very far from being generally agreed upon which operation is the best, and the variety of procedures is very large. As an illustration, we will take the treatment of the broad liga ment and the closing of the vaginal and peritoneal I think there has been an improvement in the technique of operating over the old methods in operating as proposed by Sanger and Fritsch begin the operation by the ligaturing step by step of the parametria When that is done well on both sides, the uterus will become so movable that the remain der of the operation can be done with comparative This ligaturing step by step, together with Martin's method of suturing, does away with one of the dangers of the operation, namely hæmorrhage By this step ligaturing the uterine artery is met half or three quarters of an inch above the fornix, and can be securely ligated, so that the rest of the operation can be done with comparatively little loss of blood The other danger which we have to encounter is sepsis, as we have to do with a carcinoma, whose surface is always decomposed and septic doing the usual and necessary clean operating, Leo pold proposes that we should not antevert or retro

peritoncal or the vaginal wound, but only brought forms closed when we antevert, so that the carcinodown the ligatures to the borders of the vaginal in- matous surface cannot be turned up into the peritocision, uniting them here and leaving the peritoneal neal cavity, and come in contact with the organs

As to the treatment of the peritoneal and vaginal wound, there is also a great variety of methods seems that for after treatment packing with iodoform But what gauze is much more convenient and much less troubalarmed me more than the temperature was that the lesome than a drainage tube, as the iodoform gauze can be left in for a week or more without being removed, and then the after treatment is over

DR NELSON I would like to ask Dr Fenger, in regard to the removal of the ovaries and tubes, whether they are likely to produce disagreeable reday, the washing out, however, not being trusted sults in the after history of the patient by being until after the tenth day, because at least one, per- retained? I can understand full well the desirability haps more cases are on record where, when the of leaving as many organs and as much tissue as can be left, but would raise the question of the desirability or not of removal of the ovaries and tubes when the uterus has been removed

DR FENGER In answer to that question, I would sewed up the cavity of the peritoneum you would say that it is remarkable what little trouble has been reported from the cases where the ovaries and tubes There are a few cases, one of Schreehave been left der's, where the menstrual molimina from the organs left has caused the patient trouble In another case, the ovary or a piece of it which had been left was imbedded in the cicatrix, and caused afterwards, according to the opinion of the operator, periodical Brennecke says that he has come to the con clusion that it does not do any harm to leave the ovaries and tubes in He says that the ovaries atro phy, that some of his patients have had slight molimina in the first three to six to nine months after the operation, and after that time the symptoms from the ovaries have always entirely ceased That is all I know about this question But as we get towards the end of the operation it is hard on the patient and hard on the operator, and I feel like doing as little additional operating as possible, and if I can leave the ovaries and tubes without doing the patient any harm I prefer to do so, as the operation is in many cases a severe one on account of the liabitity of the patient to collapse towards the end of the operation, which lasts for an hour and a half to two hours until I can do the operation much quicker I should prefer to leave the ovaries and tubes in

Dr Merriman Is there any danger of including the ureter in this operation, of injuring it in any way?

Dr Fenger Yes, there is danger, masmuch as it has been done, although very rarely When the ligaturing of the broad ligaments has been done step by step so that the uterus can be drawn down, then the ureter stays up, so that the final ligature of the broad ligaments is not likely to include the ureter

Dr Merriman But in this method that has been spoken of as Martin's, would there not be more danger when the bladder is not loosened?

Dr Fenger Martin ligates step by step, the parametria first, consequently he gets the uterus further down

Dr Merriman He draws the bladder down vert the uterus, but take it out without any of these with it, the uterus and bladder not being disconprocedures Fritsch advises to leave the posterior nected, and I should think there would be great danger of including the ureter in some of the operations

Dr Fenger the bladder when the uterus is made movable and drawn down, the ureters stay up

Dr Nelson Is it customary with the majority of operators to curette and thoroughly disinfect the carcinomatous ulcer before beginning the operation, immediately before, or is it done several days be fore, or is it done at all?

Dr Fenger I think it is done several days before by some, for instance by Hegar and some others Fritsch and Leopold do it at the beginning of the After the curetting, the surface is disin fected by a strong solution of chloride of zinc or a strong carbolic acid solution I prefer to postpone it to the beginning of the operation so as not to have the patient disturbed with an additional opera tion, with some loss of blood

DR MERRIMAN Supposing there was a case of cancer that had gone beyond the cervix into the tissue posterior to the uterus, invading the vagina and extending along down on the arterial side, but there was nothing anterior to the uterus, would it be safe in a case of that kind to undertake the operation of extirpation?

Dr Fenger I think I should refuse the benefit to the patient lies in operating early, and as soon as a portio carcinoma has gone over on to the wall of the vagina to any extent, I think the prospects of a radical cure are very small, and that the patient is just as well off with symptomatic treatment, curetting, etc I think the aim of the opera tion should be a radical cure, and that extensive operating is being done away with more and more, and only limited cases regarded fit for operation

Has the vaginal hysterectomy become less danger ous since its revival by Czerny in 1879? The mor tality from the operation for the first five years up to 1884 has been given by Mundé to be 28 per cent In a paper read before the Amer Gynecological Association in 1884, he tabulated all the cases to be found in the literature from Europe as well as the United States, the operations amounted to 255 with 72 deaths = 28 per cent For the operations of the year of 1885, recorded in Virchow Hirsch's Jahres ber icht, 1886, the mortality is already considerably I find reports from 32 operators In all 106 cases with 17 deaths, or 16 per cent A Martin reports, in his work of 1887, 66 cases with 11 deaths = 166 per cent Special reports from individual operators in the last year show even more favorable results

Thus we find reported by Klotz, 17 cases, no deaths, Gaillard Thomas, 15 cases, no deaths

Most valuable, however, are, on account of the larger number of cases, the recent reports from Fritsch and Leopold Fritsch reports 60 cases with 7 deaths, 10 1 per cent, Leopold reports 48 cases with 3 deaths, 6 2 per cent mortality

The reports of both last named operators include all of their operations from 1883 to 1887 Leopold's mortality of 6 per cent is the lowest yet recorded for a larger number of cases Every operator has, undoubtedly, in the beginning of his work in this seem to be much smaller than that of the total extirpation

line, operated on cases that were too far advanced Even if the ureter is caught with for a reasonable hope of permanent eradication of The more recent the origin of the the disease tumor, and consequently the more limited the extent of the growth, the better are the prospects, as well the immediate as the remote, for the patient then, in future, the cases for operation are properly selected, we can expect that the mortality will reach a reasonably low figure, and I think we must agree with Fritsch in the following statements (p 385,1 c) "I have no doubt that in a near future the mortality in general will come down to 3 or 4 per cent "

It certainly seems remarkable, and far surpassing the expectations with which this operation, less than ten years ago, was reintroduced in surgery, that in so short a time its mortality should come down to almost the same point as in laparotomy for ovarian Ovariotomy needed a much longer series of years to reach the point of safety it possesses Vaginal hysterectomy for carcinoma can be said now to be not more dangerous than the extirpa tion of a carcinomatous mamma with removal of the axillary glands, for which operation Billroth' gives a mortality of 105 per cent Schmid, from Kuster's Hospital (Auguste Hospital, Berlin), 5 2 per cent

Are the partial operations on the carcinomatous uterus, provided they permit of effective removal of the tumor, preferable as being much less dangerous than the total extirpation?

Pawlick reports a large series of partial galvano caustic operations from Brown's Klinik in Vienna

137 cases had 10 deaths = 7 2 per cent, from 1m mediate effects of the operations

In 12 of the cases of recovery, late hæmorrhages of a severe character were observed

Schroder reports 105 vaginal amputations of vag inal portion and cervix with 13 deaths from sepeis = 12 3 per cent Wallace reports 10 cases with 2 Gusseron has 33 cases with deaths = 20 per cent

3 deaths = 9 per centWe can thus conclude that, if the mortality of total hysterectomy is in the neighborhood of 10 per cent, the operation is not much more dangerous than the partial vaginal operations 6 A much larger field than hitherto will undoubtedly be accorded to It is, in many cases, almost impos the operation sible to determine how far up into the walls of the uterus the carcinoma tissue extends mortality of 25 per cent for the total extirpation, Gusserow, in doubtful cases, will prefer this opera tion to the partial operations, and he states in this "The safer total extirpation connection as follows becomes, the more it will take the place of the vag inal amputation of the cervix "

A much cited case of Binswanger is of importance in our choice of operation He found a perfectly isolated portio carcinoma, accompanied by an also isolated carcinomatous degeneration of the mucous

Deutsche Chi 1 Bilroth, Krankheiten der Brustdrüsen, p. 155

how localized a small carcinomatous nodule may be, axilla, would be the safe operative procedure to his patient operation to be done in all cases of limited carcinomas, even small carcinomas of the vaginal por tion, to the exclusion of any of the partial operations

Fritsch calls attention to the fact that a strict demarcation line between carcinoma of the cervix and of the vaginal portion, as Ruge and Veit in their classical article on uterine carcinomas have described it, does not exist in all cases Some apparent portio carcinomas extend deeply up into the cervix It is often not possible during a partial op eration, viz, vaginal amputation of the cervix, to de termine if we amputate in healthy tissue

Consequently, for the majority of such cases the total extirpation is safer as to radical cure of the

carcinoma than a partial operation

DR H T BYFORD I had the good fortune to successfully operate upon one case in which the uterus looked something like this larger one Professor Fenger has shown us It was probably an inch The patient was a fleshy married lady, about 30 years old The cervix had been amoutated a few months before I ligated the broad ligaments step by step, as recommended by Leopold I left ligatured parts together, and then packed the vagina with iodoform gauze for eight days By mistake one of the iodoform tampons was left in nearly two weeks, but it did not cause any serious symptoms As to leaving the peritoneal cavity open, I think there never will be a cast-iron rule, for that will probably have to be decided by the case If the case was one in which there was much manipulation of the broad ligaments we would expect some sero sanguinous exudation, and should not completely close the peritoneal cavity When we use iodoform gauze in the proper shape we practically close it up I do not see the use of sutures Before there can be any decomposition of secretions, the peritoneal cavity is closed by exudation Stitches, are only a source of irritation, both during and after the place As to leaving the ovaries, it seems to me that in taking out the uterus we take out the larger portion of the sexual nervous system and produce atrophy of the sexual organs quicker by removing the uterus than by removing the ovaries be almost as superfluous to remove the ovaries after the writer has met with taking out the uterus as to remove the uterus after) taking out the ovaries to bring on the menopause and thus rapidly finish the operation In regard to cles, and others are found free in the blood

membrane of the fundus It is generally accepted that taking out the uterus is not so very much more as a law in the surgery of the mammary gland, that serious, although much more difficult, than amputating the cervix It cannot be so safely done so nothing less than the removal of the entire gland, often by the inexperienced operator, for he is more and I regard it safe to add the lymphatics of the liable to do something that will endanger the life of But when the operation is properly adopt It can thus be understood that authors who performed, the peritoneal cavity practically closed believe in a low mortality for the vaginal hys-by the parts being brought together, the patient is terectomy—Sanger, Leopold, Fritsch—require this left in as good condition for recovery as by a high amputation combined with the cautery

DR J C HOAG I have observed with a good deal of interest an apparent revulsion in feeling and opinion with regard to the advisability of this operation Only a few months ago, in conversation with a number of operators in England I found the operation was very generally decried, but since that time, from a perusal of the English journals, one gets a different idea of the opinion of the British operators Some of them did not hesitate to say that in those cases which recovered there was no carcinoma regard to the technique of the operation, I can only speak in the light of what experience I have had in practice on the cadaver, under the instruction of a prominent operator I was instructed to begin the operation by opening the anterior and posterior culde sac This certainly seems to be an inferior method to the one one described by Dr Fenger, as affording opportunity for infection of the peritoneum one advantage, however, and that is, it enables one to get his bearings better in regard to the relation of the parts, because one can surround the broad ligaments with the finger and find just where to pass the the abdominal cavity open except to draw the ligatures, and in this way I think the ligatures can be put in in a more accurate manner The loss of blood is less, and after the removal of the uterus there is no trouble whatever from hæmorrhage because it is entirely prevented by the acucrately applied ligatures, whereas in the other methods there is often a considerable loss of blood In a number of cases which I saw the operation was practically bloodless

(To be concluded)

PATHOLOGICAL SOCIETY OF PHILADELPHIA

Semi-Annual Conversational Meeting

THE PRESIDENT, F P HENRY, M D, IN THE CHAIR

DR W T COUNCILMAN, of Baltimore, delivered an address on

SOME FURTHER INVESTIGATIONS ON THE MALARIAL GERM OF LAVARAN

This organism, first described by Lavaran, has It would been met with in every case of malarial fever which The organism is in high degree polymorphous, and ten tolerably distinct forms may be found in the blood Some of these There is one kind of operation which has not been evidently represent different stages of development, referred to, that is by leaving compression forceps and the connection between them is obvious Others on the stumps, as is done quite extensively in France present such marked differences in form that no con-When the patient is very weak it nection between them can be made out Some of seems to me an improvement to put on these clamps | the forms are only found outside of the red corpus the mortality and difficulty of the operation, I think are 1 Non pigmented small amœba like bodies in-

side the red corpuscles, 2 pigmented bodies larger than No 1, also in red corpuscles, 3 pigmented bo dies about the size of red corpuscles, 4 segmenting forms of the No 3 body, 5 small hyaline bodies, which are formed by this segmentation, 6 a cres cent-shaped body with pigment in the centre, the horns of the crescent being often connected by a fine line, 7 round or oval bodies which differ from No 6 in shape only, 8 a pigmented body provided with numerous long, actively moving flagellae, 9 actively moving free flagellæ, which are evidently derived from No 8, 10 a pigmented body with an active undulatory movement of its periphery. The first five forms are found only in intermittent fever, No 4 only being seen in the blood during the chill pe riod, and its presence is invariably connected with the chill, Nos 6 and 7 are found in cases of malarial cachevia

The most interesting forms, and about whose parasitic nature there can be no doubt, are the bodies Nos 8 and o These are generally absent in blood taken from the finger, but they may be found in any type of the disease They are the only forms of the organism whose presence in the blood is not asso ciated with a special type of the disease. They were found, however, in fifteen out of the twenty cases in which the blood of the spleen was examined these twenty cases twelve were cases of malarial cachexia, and eight of intermittent fever twelve they were found ten times and in the eight cases of intermittent five times From this it seems probable that Lavaran was right in considering the flagellate organism the most important form of the The influence of quinine on the intracorpuscular forms of the parasite is most marked Doses of 15 grs t 1 d for two days in succession were found sufficient to cause them to disappear The effects of the quinine were not so apparent in the other forms The crescents were apparently not diminished in number in one individual after he had taken 45 grs of quinine daily for seven days, and 60 grs daily for four days

DR WM OSLER said the thought which had struck him most forcibly, in looking over this subject, was the almost perfect unanimity which has prevailed among the different observers as to the appearance of these organisms With the sole exception of the segmented form (No 4), Lavaran and the early observers had described them all His own observavations, since the communication he had presented to the Society last year, had been somewhat limited He had, however, made a series of observations upon the blood of fishes and birds, since it had been stated that bodies resembling Nos 1, 2 and 3 had been found in the blood of carp and some water-fowl Prof Baird had offered him facilities for this work at Wood's Hall, and had kindly furnished him with forty five carp He had failed to detect any such organisms in the blood of these In the blood of a goose sent him from Ontario he had found one or It had been been stated by two pigmented bodies Dr McCallum, who sent him the goose, that the eventually disappear? However, the bodies were not bird had malaria numerous, nor was the temperature of the goose ele- as described by Hutter some twenty years ago?

vated, nor, so far as he could make out, had it chills Dr Councilman had not figured one body that is very peculiar indeed, namely, a solid body in the centre of a clear space. It stains like a microorganism, varies in size, and although the body itself does not change in form, yet there are sometimes changes in outline in the clear space surrounding it They were somewhat abundant in one case only

One other point with regard to the clear bodies (No 1)In five or six instances he had seen such bodies pass out from the corpuscle, remaining out and undergoing no further change of form He was not altogether prepared to say what was the rela tionship of these bodies to the other bodies de-It has been claimed that similar changes can be obtained by special methods of treating the The most important question is first to de termine the relationship of the hyaline to the pig mented bodies, and the possibility that the hyaline He was may not be directly associated with them convinced that the pigmented and segmented bodies were merely different stages He could fully con firm what Dr Councilman said with regard to the They are most peculiar and interesting crescents bodies, occurring in the chronic cases and in those in which there had been no chills Three weeks ago he had diagnosticated a case as one of mild typhoid fever, it had lasted eight or ten days, with constant fever, up in the evening, down in the morning, slight enlargement of the spleen, no spots His Res ident examined the blood and found what he thought The case got rapidly better, left the were crescents hospital, and returned in a few days with a distinct chill, with crescents in the blood and a well marked The mobile forms he had not seen remittent fever nearly as frequently as Dr Councilman, though he had not examined the blood from the spleen they had been present in eight or ten cases Nor had he seen free filaments nearly so often, when he wrote his paper he had not seen them at all Since then he had watched the process of separation out of the question to suppose that the crescents or mobile forms could come from degeneration in the stroma of the corpuscle, but that the hyaline forms resulted from such changes was not altogether improbable, and further investigations were necessary to determine this point

DR J P C GRIFFITHS called attention to the di agnostic value of these organisms, and instanced a case where from the indefinite history and symptoms he was unable to make a diagnosis until after an examination of the blood, when a short course of treatment resulted in a cure

DR H C Wood said that no one seemed to have made any connection between the crescents and the amœboid forms, they seem to differ in that these are destroyed by quinine, those are not affected We know that malarial cachexia is cured by quinine, arsenic and iron If these remedies have no effect on the crescents, what connection have these bodies with malaria? and what becomes of them, do they

DR FORMAD asked if these organisms are the same

DR COUNCILMAN said, in conclusion, that Hutter described moving bodies attacking the red corpus cles, existing in all fevers and apparently almost everywhere else These observations had never been confirmed The point rused by Dr Wood had always puzzled him, and for a long time he had tried to reconcile himself to a belief in two distinct dise ises, but this he could not do, as always as the other forms disappear the crescents appear had never seen the crescents unless with a history of previous chills He was not altogether prepared to say that quinine had no effect on the crescents, though in several cases he had given it in large doses with no results Still in some cases they do seem He thought with Dr Osler that the to disappear crescents could not be possibly produced by changes in the stroma of the corpuscles though some of the other forms might

FOREIGN CORRESPONDENCE

LETTER FROM LONDON

(FROM OUR OWN CORRESPONDENT)

Hydrofluoric Acid in Phthisis-Cause and Preven tion of London Fogs-Cow pox in England-Preven tion of Pollution of Rivers by Soap and Other Works -Multiple Sarcoma with Osteitis Deformans

Hydrofluoric acid is spoken hopefully of as a new treatment for the cure of phthisis The patient passes one hour out of the twenty four in a room of the capacity of six cubic metres, into which a current of air is pumped which first passes through a fluid composed of 100 grams of hydrochloric acid and 300 grams of distilled water The proportion of hydrofluoric acid taken up in the cold under such circumstances would vary greatly with the bulk pressure for water alters the cough immediately, quickly diminishing it, and occasioning its complete cessation in a few days, the bacilla of the sputa concurrently disappearing Fifteen or twenty days suffice to greatly benefit the patient, if not to cure him entirely Out of nearly a thirty five were cured, forty one greatly improved, fourteen seemed unaffected either way, and ten deaths took place The action of the acid is consid ered a purely antiseptic one, and several well known

Sir Donglas Galton recently read a paper at the Parke's Museum Hygiene upon the cause and pre vention of those dense fogs which appear yearly to Europe and America become more frequent and severe in London

contained four times as much carbonic acid as ordin ary London an, and that might be taken as an index of the quantity of other impurities which a fog accumulated Fog was caused by the floating matter in the air attracting to itself the aqueous vapor which was always more or less present Some forms of matter, such as ammonia and sulphur, had a gierter affinity for vapor than other matters substances were present in London air to a great The blackness of the fog. and unnecessary extent came from the smoke arising from incompletely If smoke was to be avoided housesburned coal must be warmed by hot air, hot water, steam or gas, as in the so called smoke preventing open fires care was required in putting on coals and nobody exercised that care

A report of the Agricultural Department of the Privy Council is a curious example of the unexpected result to which scientific inquiries sometimes lead-The result of an inquiry by Dr Klein, FRS, made for the Local Government Board and published last February, appeared to establish the fact that milch cows could suffer from scarlet fever, as Dr Klein and Mr W H Power in the inquiry as to the cause of an outbreak of scarlet fever in Marylebone, traced the milk supplied from a certain dairy farm and ascertained that the cows were suffering from a contagiouseruptive disease The same microbe was found in the discharges from this cow disease as was found in the blood of persons suffering from scarlet feverconsequently the conclusion was arrived at that the human being caught the scarlet fever by drinking the milk of cows thus diseased This theory was adopted by the Local Government Board The Agricultural Department took the matter up and instructed Professor Crookshank of the Bacteriological Laboratory of King's College, to make an independent inquiry. Professor Crookshank has arrived at the conclusion that this cow disease has nothing to do with scarlet and velocity of the air current, but would in no case fever, and that the milk which gave the disease must be large, owing to the great attraction of this acid have been contaminated in some other way, probably It is, however, stated that this treatment through the hands of milkers But this new inquiry has done something more than prove the previous investigation to be wrong, it has most unexpectedly turned up a new fact of great practical importance It is not necessary to follow the Professor through all the somewhat intricate steps of his argument, suffice hundred cases in various stages of the disease treated it to say that he has apparently proved beyond the during some ten weeks this autumn it is alleged that range of reasonable doubt that this eruptive disease of the udder of the cow is true Jennerian cow pox It is a curious fact that for the last thirty or forty years this disease has not been heard of in England, although at the time when Dr Edward Jenner pubphysicians are about to make systematic trials of the lished his great discovery, just ninety years ago, it was commonly seen in the dairy farms of the West of England During the same period there have been but two or three cases observed on the Continents of When it was determined to The establish vaccination from the calf at the National lecturer said that black fog was entirely the result of Vaccine Establishment, the first supply of lymph smoke, one rose to see a lovely sky, but an hour to vaccinate the first calf had to be obtained from later, when fires were lighted the brightness was the Hague and Bordeaux, but since then the civilized dimmed and the sky and light disappeared Dr world had to depend for its vaccine upon stocks de-Russell's experiments showed that the air in a fog rived from one of these sources, or from the human

that cow pox, or vaccinia, has again occurred spontaneously in this country The dairy farmers and the Agricultural Department are not only triumphant but have returned good for evil Accused of dissemminating scarlet fever, they present the world with a new source of vaccine lymph supply

At Rochdale an invention to prevent the refuse of soap and other works polluting rivers has been successfully tried The water containing the dissolved lifying soap is run into a large vault, over this vault are two elevated tanks of the same size and beneath them a retort is fixed. The soapy water is pumped from the vault into the elevated tank and chlorine, generated in the retort from hydrochloric acid and maganese, is forced into the liquid This causes the refuse and fatty matter to gather in a cake at the bottom water in the tanks is run off into the river containing performed without the final closure of the inguinal no foreign matter with the exception of a little com-The cake of fatty matter and dirt is then mon salt treated, the oil extracted by pressure and filtration is ating Dr Burchard said that his experience had led made into brown soap exactly like that which is used him to the adoption of a plan of treatment substan in the process of washing raw silk. The inventor tially as follows has been offered £20 per ton by wholesale dealers for the reclaimed soap

Dr G F Elliott, at the recent meeting of the of morphia and atropia Medical Society, contributed the notes of a case of multiple sarcoma, associated with osteitis deformans, There was no history of syphilis, in a man, æt 27 and until February, 1886, the general health had Pain, attributed to rheumatism, then been good appeared in the knees and shoulders In December, 1886, the hands and feet were noticed to be enlarged In June his upper extremities from the fingers half way up the humerus and his legs from the toes to and including the knees were found to be ædematous There was marked thickening of the bones clavicle and some ribs on the right side were also thickened The skin of the face and hands presented numerous small flattened nodules about 1/8 in in diameter, there was more or less hyperæthesia of the first been obtained to proceed with the operation in skin of the trunk There was pleural effusion over the left lung Later on troublesome diarrhœa super-Nine days before death the patient insisted on going home and was thus lost sight of The diagnosis was premised from cancerous growth on the thoracic duct and Dr Hilton Fagge's authority was quoted in favor of the nodules being indicative of a sarcomatous growth

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FROM OUR OWN CORRESPONDENT)

A Symposium on Hernia—Treatment of Strangulated Herma, Management before Operation, Principles of the Operation-Conservative Treatment of Irreducible Hernia—Strangulated Hernia in Children —Telegraphic Mind-Cure

At the December meeting of the Academy there was a "symposium" on the subject of hernia was led off by Dr T Herring Burchard, who gave lation, so that surgical relief could now generally be

It is, therefore, extremely interesting to find a clear exposition of the modern treatment in stran gulated hernia, and strongly urged the advantages of early operative interference He said that, encouraged by the remarkable success obtained in the treatment of strangulated hernia by the methods suggested by Mitchell Banks, Czerny and others, surgeons had latterly paid special attention to the radical cure operation as applied to cases in which strangulation existed, and the results achieved had been most grat The modern operation found its greatest advantage in the radical cure it secured by the com plete closure of the sac and the permanent oblitera tion of the canal, and it had been successfully per formed upon all forms of hernia, inguinal, femoral and umbilical, with equally satisfactory results. In the light of these facts he thought that no operation for strangulated hernia could be said to be properly canal

With regard to the management previous to oper

r Pain is allayed, vomiting quieted, and nervous tranquility secured by the hypodermic administration

2 As soon as practicable a careful examination is made of the hernial tumor, any attempt at reduction being studiously avoided

3 If evidences of inflammation are found, or if there is much swelling in the tumor, a poultice of flaxseed meal and cracked ice, or the ice coil, is at once applied, these being dispensed with, however, if the patient is feeble or the strangulation is of long standing

4 A stimulating enema of turpentine and oil, or a large emollient one of flaxseed tea, is administered, and the rectum thoroughly washed out If the tumor is at all distended no attempt at taxis is made until,

The patient is anæsthetized, permission having case taxis should fail

He especially emphasized the advantages to be gained by putting the patient under full anæsthesia (preferably by chloroform), covering the tumor with a rather large and heavy ice poultice, elevating the lower extremities, and keeping the hands entirely off for a period of from thirty to forty minutes In a number of instances, he said, he had had the satis faction of seeing the tumor slip back of itself, almost imperceptibly, even after prolonged taxis had been unsuccessfully employed As to just how long the attempt at reduction was justifiable, no absolute rule In some cases it was advisable could be laid down that the trial should be kept up for twenty, or even thirty minutes, provided always that only the most gentle manipulations should be employed

Taxis having proved unsuccessful, the operation should at once be undertaken, and the general prin ciples upon which, as a legitimate surgical procedure, it was based, were the following

r A more general recognition by the profession of the value of time in the earlier stages of strangil

remediable had taken place in the tissues

tices which, founded in a false pathology, sought to used as a causative agent in the production of strangulation, never exists

3 Modern hermotomy restricts the employment of taxis to within limits which are rational and safe Necessary as properly directed taxis is in the reduction, by its indiscriminate and reckless use irreparable damage has not infrequently been done the intestine

4 Modern hermotomy implies the early resort to a cutting operation Many lives, Dr Burchard said, extravasation and stercoraceous vomiting, the perifactors of the primary condition of strangulation, but secondary complications, developing later on in the progress of the disease, and the legitimate result of delay in affording relief to the original constriction reference to strangulated hernia in children

of the hernial sac the finest impartiality of judgment Certain cases require incision, while in others the strangulation can be readily reduced without opening the sac, so that it would be folly to thus complicate the operation and expose the patient to unnecessary danger

7 Since Mitchell Banks, of Liverpool, has urged the possibility and expediency of perfecting the old operation of kelotomy, so as to add to the operation done for the relief of strangulation the inestimable advantages of an operation for radical cure, the strongest possible encouragement has been given for the attainment of an early, thorough, and perfect operation

Dr V P Gibney said that he should like to make some protest against the strong condemnation of taxis which Dr Burchard had expressed, as he had seen a reduced under taxis as employed by the average

practitioner

Dr Robert F Weir remarked that while the radical operation unquestionably marked an improvement in this field of surgery, it could not as yet be regarded as a perfected operation, and having given some statistics showing the comparative frequency practicing the operation, and he feared too freelythat is, too freely in non strangulated hernia

Dr W B De Garmo read a paper on the connot treat of strangulated herma, but advised a course in children of gentle manipulations in cases which were gener- his experience, and he had never found it necessary ally regarded as irreducible The first thing to do, he said, was to get the mass freely movable in the sac, and then use compression, rather than ordinary and students of medicine might as well at once begin

rendered before pathological changes which were ir separated from the vicinity of the testicle, if it was situated in the rectum In other words, it was to be 2 Modern hermotomy implies an abandonment perseveringly stripped from its lower adhesions, and of those uncertain and pernicious methods and prac-|gradually worked upwards, no force whatever being The complete separation of the omentum so relieve the strangulation by producing a condition of frequently forming a part of the mass was accomsystemic relaxation It is now recognized that spasm, plished before the reduction proper was commenced By taxis he explained that he meant the gentle manipulation of the neck of the sac, but employed in such a way as to avoid pressure back against the abdominal rings, which was apt to be resorted to in taxis as commonly practiced The manipulations were to be kept up for from fifteen to forty five minutes at a time and repeated once a day cases he was in the habit of directing self applied After the reduction the hernial sac usually had to be sacrificed before the profession seemed to remained, but if the hernia was kept properly in realize that the gangrene and ulceration, the fæcal place by a well fitting truss, the sac often disappeared m the course of time Out of ten cases reported tonitis and collapse, were not necessary and integral by Dr De Garmo, there were seven reductions and two failures, while one case was abandoned on account of the patient's having diabetes

An interesting part of the discussion was that in Modern herniotomy is an antiseptic operation, G Gerster read a paper on this subject in which he demanding the fullest application of Listerian prin- reported four cases operated upon, and said that there was one point of difference in the treatment 6 Modern hermotomy requires in the disposition required as compared with that in adults, this being due to the difficulty of preventing infection of the external wound in small children Primary union did not occur after suturing, and he therefore advocated an open treatment of the wound It was his practice to pack it with iodoform gauze in order to

secure an aseptic condition

Dr Weir said that he had had two cases in children, like those of Dr Gerster, in which he operated, and both had proved fatal In two other cases he had successfully reduced the hernia without operation, by resorting to the expedient of inserting the finger into the rectum, and thus combining internal

with external pressure

Dr Gibney, who has had an unusually large experience in the matter at the Hospital for Ruptured and Crippled, said that he did not recall a single instance of strangulated herma occurring in childhood in which number of aggravated cases of strangulated hernia it was not possible to reduce the strangulation with the aid of chloroform Furthermore, he believed that if the herma could be reduced in children, it could be cured simply by the wearing of a suitable As, in addition, the operation was a more serious one than in adults, he thought, therefore, that operative interference should never be resorted to in children, and such interference became all the more of relapses, he said that surgeons were everywhere unnecessary in the light of the successful results accomplished by the conservative methods advocated by Dr De Garmo

In concluding the discussion Dr De Garmo said servative treatment of irreducible hernia, which did that he had met with only temporary incarceration No serious results had ever occurred in

even to resort to taxis in such cases

Dark days are in store for the medical profession, In the second place, the tumor was to be to devote their energies to some other calling, if the

wonderful reports lately published in the newspapers trustees of the New York State Custodial Asylum are to be accepted with entire confidence anybody becomes ill now it is only necessary for the friends of the patient to telegraph to "Dr" Dresser, "the great mind healer" of Boston, and prompt recovery will immediately result. At all events, this is what the newspapers tell us occurred the other day, in the case of a little girl 11 years old, in Brooklyn, who was "seriously ill with remittent fever" "Three eminent physicians" assured the parents that there was nothing to be done for the child except to see that she had good nursing In spite of this advice, however, she continued to grow worse, until she was "actually at the point of death" In this emergency a telegraphic message was sent to "Dr" Dresser, in For an hour she remained unconscious, during which time, we are informed, the great mind healer was "working on her," and "in half an hour she was as well as ever "

A CORRECTION

Str —I observe in an article on "Conservative Gynecology," Dr Horatio R Bigelow says that he cannot agree with the view tendered by one surgeon "When in doubt, open the abdomen and find out" He thinks a more accurate diagnosis should be made in every case before advising abdominal section This is not the first occasion by many times on which I have had to correct this deliberate misquotation by Dr Horatio R Bigelow He does not indicate me this time by name as he has in other instances, but the quotation which he says he takes he specifies in other instances to be from me

I have never said, and I do not believe any other living surgeon has ever said, "when in doubt, open the abdomen and find out" What I have said is "The abdomen should be opened in cases of doubt only when there is risk to the life of the patient or when the patient is in a serious condition," a very different thing indeed from Dr Bigelow's words LAWSON TAIT am, etc,

7, The Crescent, Birmingham, December 15, 1887

NECROLOGY

CHARLES G POMEROY, M D

Dr Charles G Pomeroy died in Newark, Wayne Co, New York, on December 14, 1887, in the 71st year of his age Dr Pomeroy was one of the bestknown physicians and surgeons in Central New York He was a member of the American Medical Association, permanent member of the New York State Medical Society, a member and one of the founders of the New York State Medical Association, ex-president of the Medical Association of Central New York, and often was elected President of P A Surgeon A H Glennan, relieved from duty at Key West, the Wayne County Medical Society During the war he received a surgeon's commission, but was never in the field At his death he was one of the

When for Feeble Minded Women, and until his health failed was the institution's treasurer and physician He was public spirited, and of the strictest integrity both in and out of his profession

MISCELLANEOUS.

THE ALUMNI ASSOCIATION OF THE WOMAN'S HOSPITAL in the State of New York, will hold its third annual meeting at the New York Academy of Medicine, January, 18, 1888, com mencing at 10 A M

OMISSIONS —By mistake the following names were omitted from the List of Permanent Members of the American Medical Association, published in Fiff Journal for December 31, 1887

Wertz, M. D., Jasper, Indiana, Talbot Jones, M.D., St. Paul, Minnesota

QUADRENNIAL DISCOVERY PRIZE OF £1000 —1887-1800 — In accordance with the terms of the Grocers' Company's Scheme, the Court announce that the problem proposed as the matter of

competition for the first Discovery Prize, (1883-1886) viz
"Fo discover a method by which the Vaccine Contagium may be cultivated apart from the animal body, in some medium or media not otherwise zymotic —the method to be such that the Contagium may by means of it be multiplied to an indefinite ex tent in successive generations, and that the product after any number of such generations shall (so far as can within the time be tested) prove itself of identical potency with standard vaccine lymph," has not been solved by any of the candidates. The Prize has, therefore, been withheld, and the same problem is, subject to the conditions of the Scheme, again proposed for investigation. The Prize is open to universal competition, British and foreign Competitors for the Prize must submit their respective treaties on or before December 31, 1890, and the award will be made as soon afterwards as the circumstances of the competition shall permit, not later than the month of May, 1891 In relation to the Discovery Prize, as in relation to other parts of the Com pany's Scheme in aid of sanitary science, the court acts with the advice of scientific assessors All communications on the subject are to be addressed to the Clerk of the Grocers' Company, Grocers' Hall, London, E C

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM DECEMBER 31, 1887, TO JANUARY 6 1888

Major P J Cleary, Surgeon, granted leave of absence for one month S O 138, Dept Ariz, December 25, 1887
Capt R G Ebert, Asst Surgeon, ordered from Ft Custer, Mont, to Ft Pembina, D D S O 301, A G O, December 20, 1887

cember 30, 1887

First Lieut C B Ewing, Asst Surgeon, granted one month's leive S O 137, Dept Missouri, December 27, 1887

OFFICIAI LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U S MARINE HOS PITAL SERVICE FOR THE WEEK ENDING JANUARI 7. 1888

Surgeon S D Murray on being relieved at Ship Island, Miss, to proceed to Key West, Fla, and assume charge of the Ser

vice January 4, 1888

A Surgeon S C Devan, relieved from duty at Port Town send, W T, to assume charge of Sapelo Quarantine January 1888

ary 5, 1888 Fla, to assume charge of the Service at Port Townsend, W T January 5, 1888 Asst Surgeon P M Carrington, promoted and appointed P A Surgeon from January 20, 1888 January 7, 1888

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

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No 3

ORIGINAL ARTICLES

THE GERMICIDAL, ANTIZYMOTIC, ANTISEPTIC, AN-TIPYRETIC, DISINFECTANT, AND OTHER MED-ICAL PROPERTIES AND APPLICATIONS OF NITROHYDROCHLORIC ACID

> BY GEO J ZEIGLER, MD, LATE PHYSICIAN TO THE PHILADELIHIA HOSPITAL

In the eager search for new remedies, and especially in the present earnest quest for more efficient germicides and antipyretics, we are apt to overlook the known merits or undiscovered properties of the old ones, whereas, while we welcome the new, we should cherish the old and good, and seek the additional advantages which a closer scrutiny of them af-Of none is this more true than the agent under consideration—nitrohydrochloric acid, which, as its name indicates, is a compound of nitric and hydrochloric acids in different proportions, by their combination forming the well known nitrohydrochloric acid, or aqua regia a series of remarkably valuable medicinal and other tonic, and healing properties qualities rendering it applicable for a wide range of sanative and remedial purposes, as well as useful in the arts Thus, as it yields free chlorine in a nascent and most active state, appreciable by the taste and smell, in an acceptable, easily tolerated and agreeable form, it constitutes at least one of the most powerful, safe, and useful germicides, antizymotics, septic, disinfectant, oxidizer, chemico organic alteraaltogether it is antalkaline, germicidal, refrigerant, febrifuge or antipyretic, antiseptic, antizymotic, antitoxic, antiperiodic, antiscorbutic, antihæmorrhagic, antiphlogistic, antipyic, antilithic, alterative, disin fectant, sialogogue, cholagogue, lavative, diuretic, secernent, depurant, resolvent, digestive, stimulant, vivifying, restorative and tonic, its acidulous, oxidiz ing, purifying, refreshing, digestive, invigorating, vitalizing, and other salutary properties rendering it very acceptable to the stomach and animal economy, thus forming a rich and peculiar combination of sanative and medicinal qualities, independent of its extraneous adaptation in the arts

drochloric acid is generally applicable in all pathological states of superalkalinity of blood and system, local and constitutional, benign and malignant, such as scorbutic, purpuric, hæmorrhagic, inflammatory, suppurative, gangrenous, ulcerative, purulent, sanious, dropsical, and analogous disorders, especially of a toxemic, lithemic, uramic, bilious, albuminuric, serous and mucous character, and of a more malignant type, as pernicious fevers and conditions generally It is particularly efficacious in all superalkaline, scorbutic, zymotic, septic, contagious, malarial, toxæmic, cholemic, and uræmic diseases, adynamic fevers, and infectious affections, with those maladies dependent upon a necræmic, mephitic and putrescent condition, even with local lesions both internally and externally, though rather too active and laxative in general for those in the gastro intestinal canal connected with typhoid or enteric fever, cholera, and like abnormalities, for which the milder and more astringent hydrochloric, sulphuric, phosphoric, hydrobromic, and other less exciting acids are usually preferable, separately or with their compounds of iron and lime more This agent is endowed with especially, which increase their constringing, styptic,

Asepsis should be general as well as special, from the interior as well as exterior of the animate body, and include the entire organism, or universal in its range and application, as the primal cause of the development of microscopic plants or pathogenic germs, concomitant toxic matter and disease both benign and malignant, is general The basic material or antiseptics, and disinfectants known Moreover, it pabulum vita for the germination, sustenance and probably supplies nascent oxygen from the reaction growth of these parasitic vegetal organisms, microof its constituents, another potent antizymotic, anti-zymes or germs, and the production of poisonous or infectious matter in the vital economy is the same as tive, purifier, resolvent, nutrient and vitalizer, while for plants of all kinds, with their products, outside of the living body, in the earth, air and elsewhere, viz the volatile organic alkali ammonia, for every variety and form of plant, microscopic or macroscopic, within or outside of the vital organism, derives its nourishment and support therefrom therefore, there is a sufficiency of this ammoniacal pabulum for the sustenance of vegetal organisms, they will germinate, grow and develop after their kind, bear fruit, food, poisons and other matters, good, bad or indifferent, inside as well as out of the living animal body, this being, in fact, a constant spontaneous generator of ammonia and its compounds, carbonate, urea, etc, with its adjuncts car-With few exceptions, mainly from local lesions in bonic acid and water, the essentials of vegetal develin the gastro-intestinal canal and kidneys, nitrohy-opment and growth everywhere, of every form, kind pal and most important, and hence the basis of the poisonous and mephitic matter in the mouth, throat, science and art of agriculture in all its departments, microscopic as well as macroscopic There is thus a constant generation of this ammoniacal principle and plant food in the animal economy, which from various causes often passes the normal and becomes superabundant and directly a source of excessive fluidity of blood and disease of various kinds, as well as pabulum for the support, growth and evolution of these cretion, excretion, or defecation, and life action genparasitic microphytes, toxic ptomaines, poisonous alkaloids and other foreign and morbific matters in Therefore, if you neutralize, dethe living body compose, eliminate or destroy this superabundant ammoniacal material and vegetal food upon which all microscopic as well as macroscopic plants thrive, you prevent the development of or starve these bacteria, microphytic poisons, and other extraneous entities in the vital organism, the same as sterilizing the soil will prevent the evolution of or starve all kinds of plants and products in the earth This can be more or less readily effected by an antalkaline and acidulous regimen and medication, one of, if not the most powerful counteracting and destructive agents for the purpose being nitrohydrochloric acid antalkaline, germicide, antizymotic, antiseptic, antipyretic and disinfectant this is exceedingly active, whether the superalkalinity, germs, or toxic matters are of a primary or secondary origin, pathogenic factors or results of morbid conditions, here is an agent that meets all the requirements, safe, salutary, agree able and acceptable to the human stomach and system, or entire animal organism, and of general application, that will prevent and destroy them time largely, and correct the consequent disorder they occasion, or underlying superalkaline, ammoniacal, and other abnormities upon which they are depend ent, as well as remove the fevers or other morbid states resulting from and connected therewith Though the practical fact that this acid medicament, with the acid regimen and medication generally, resolves and cures these so called germ diseases, is worth more than volumes of hypothetical speculation respecting their origin, yet it is necessary for scientific precision and therapeutic perfection to determine the causative factors of disease positively, speculation being as essential to the advancement of is a specific for all forms of asthenic inflammatory, medical as all other branches of science

In ship, typhus, bilious, remittent or malarial, scarlet, puerperal, and other fevers of a malignant and adynamic type, with variola, rubeola, quinsy or putrid sore throat, diphtheria, erysipelas, carbuncle, and other zymotic, septic, pyæmic, contagious, and pu trescent diseases, as well as in the minor scorbutic, necræmic, diphtheroidal, carbunculoid, gangrenous, and inflammatory affections, I have given nitrohydrochloric acid freely, and with so much success that I now habitually prescribe and rely upon it therein as the basic and specific remedy for the underlying constitutional dyscrasia and superalkalinity of blood, as well as general resolvent of their sequelæ, though using at the same time as adjuvants all other remedies conditions generally indicated for special purposes It neutralizes the wise acts specifically as a potent germicide, antisepammonæmia and superalkalinity of system, disinfects tic, antizymotic, antipyretic or febrifuge, antipyre,

and size of herbage, of which the first is the princi- and destroys zymotic, septic, contagious or infectious. nares, gastro intestinal canal, liver, lungs, blood, and body, promotes the normal secretions of the salivary glands, stomach, liver, bowels, kidneys, and other organs, depurates and purifies the fluids and solids of the entire system, quenches thirst, reduces fever, resolves abnormal conditions, and restores the healthy equilibrium of hæmatosis, circulation, nutrition, secrally, while at the same time it exerts a stimulant influence upon the brain and nervous system, or gives a "buoyant feeling," as a patient expressed it, invig orating and enlivening the whole being, body and

> Nitrohydrochloric acid is thus specifically potent not only in the milder disorder of a non infectious, scorbutic, and mephitic character, but also in the most malignant and contagious maladies, as typhus, ship, scarlet, puerperal, and like fevers, with small pox, diphtheria, cynanche maligna or putrid an gina, crysipelas, carbuncle, and other zymotic, sep tic, putrescent, and pernicious diseases. It is, hence, especially indicated in yellow, as in ship and cognate fevers, with other septic, infectious and malignant maladies, and may be given freely therein separately or in conjunction with other mineral, vegetal and animal acids or remedies indicated, and doubtless with as beneficial effects in the former as in the lat ter Besides other evidence which might be adduced of its superior value, this was clearly exemplified in seventeen or more cases of ship fever which came into the Philadelphia Hospital under my care at one The patients were seriously ill, spotted with the macula of typhus, and so offensive and conta gious that it was dangerous to go near them, yet with the free administration of vegetal and mineral acids, nitrohydrochloric acid being the principal, they were soon disinfected, purified, revivified, and restored to health, all recovering except one brought in moribund and dying before treatment could be In septic and toxemic states, with or instituted without local complications, as in malarial, bilious, remittant and other adynamic fevers, with lithæmia, scurvy and scorbutic conditions generally, benign or malignant, this acid is also a sovereign remedy li putrid, and diphtheroidal sore mouth, throat and ad Jacent parts, as it dissipates the disease rapidly It is also the basic and specific remedy for diphthena itself, with acetic, lactic citric and other acids, pepsin, papoid and other solvents of the fibro plastic membrane, and the active stimulants and tonics in Hydrogen peroxide is also applicable as a dicated germicide, antiseptic, antizymotic, disinfectant, te solvent, oxidizer, vitalizer and tonic in this dire af fection, with all other scoibutic, septic, putrescent, in As an oxidizer, fectious and contagious diseases vitalizer, alterative, resolvent, depurant, stimulant and tonic, nitrogen monoxide is also specially indi cated in diphtheria with asphyviating and adynamic Nitrohydrochloric acid like

disinfectant, depurant, lavative, diuretic, securnant, resolvent and tonic, in all forms and stages of scar latina, in destroying the germs and infecting princi ple or contagium, aborting and subduing the fever, preventing and correcting the inflammation, soreness and ulceration of the throat and glands, disease of the kidneys and resulting dropsy, with desquema tion of the skin, and in overcoming the toxicity of blood and system, promoting healthy renal, hepatic, and other secretions, and in restoring the normal ac tion of the bowels and state of health generally the malignant type of rubeola it is likewise benefi cial, but in the more active catarrhal form, with hard, dry cough, the neutral or alkaline salts are most ap propriate, either alone or in conjunction as indicated, the variety modifying the treatment in this as in Besides these pernicious anginose other diseases affections with septicity of blood and local compli cations, there are other allied maladies, as puerperal peritonitis and fever, erysipelas, and similar morbid states, in which it is very efficacious The use of nitrohydrochloric acid occasionally according to necessity during pregnancy, is especially indicated as an efficient antalkaline germicide, antiseptic, al terative, or chemico vital transformer, disinfectant, refrigerant, depurant, secement, laxative, diuretic and tonic, that will prevent, counteract or resolve the concomitant albuminuria, uremia, anasarca, and other senous ailments incidental thereto, and avert puerperal eclampsia and fever, with many of the mi nor ills of gestation, as it will preserve and restore the equilibrium of health, make the patient comfortable, and abort or break up the disposition to puerperal disorder of most kinds

Long since, in the Boston Medical and Surgical Journal, Vol xlvi, Nos 22 and 23, under the comprehensive title of "Anæmatosis," I treated of various analogous pathological states as similar dia thetic conditions, viz

Tuberculosis, Albuminosis, Adiposis, Glucosis, Toxicosis,

believing them all to be dependent upon the same general cause of a deficiency of oxygen, or more pre cisely, defective oxygenation of the blood and sys-Thus, while both albuminuria and glycosuria may be occasional, accidental and limited, and with deficient oxygenation, the kidneys acting as a sort of safety valve to free the vital economy from or allow the excess of unassimilated albumen and sugar to escape with other extraneous matters ordinarily, but which gradually or suddenly increasing beyond the normal limits and passing into the pathological state with the morbid manifestations pecuhar thereto in various degrees of intensity, until they finally culminate in pronounced disease of the severest type, with excessive loss of nutrient matter and conse quent irritation, congestion inflammation and disor ganization of the renal organs, similar to tuberculosis

Surgical Reporter This brought me a well known physician, Dr H, of a bilio lymphatic temperament, large and portly, rather past the meridian of life. who said that he had been afflicted with albuminuria for sixteen months, and was greatly despondent thereat, believing that he was incurable, especially as he had been declared by his medical friends. among whom was the late Prof Gross, to be a hopeless case of Bright's disease, in which he coincided In accordance with my idea of the general cause of this affection, viz, defective oxygenation, I recommended an abundance of pure air, and to insure this, to live an active out door life as much as possible, with corresponding hygienic measures, and moreover, advised him to take nitrohydrochloric acid as an antiphlogistic, antitoxic, alterative, resolvent, disinfectant, chemico organic transformer, oxidizer, vitalizer, diuretic, and tonic, as hydrogen peroxide, nitrogen monoxide, and ather sources of oxygen were not so convenient then as now, the albuminuria disappeared, and he recovered Gross met him some time after and expressed surprise at seeing him yet alive, saying, according to the rules of medicine he ought to have been dead six months before However, he lived for about eighteen years thereafter, even longer than his eminent confrére who had doomed him to an early death so many years be-This case affords an instructive lesson, as it strongly shows the shortsightedness of regarding seemingly remediless diseases as incurable, and doing nothing, or continuing in the old ruts to destruction, instead of working out some new course which may lead to conservation and recovery, especially when it is proven that many chronic, difficult, and so called hopeless cases can often be cured, or at least relieved, and life prolonged and made comfortable by judicious treatment, as the experience of scientific physicians so frequently testify, and the haphazard experiments of empirics occasionally illustrate to the discredit of legitimate medicine Such cases are often incurable only because we do not know how to treat them properly from the want of correct knowledge on the subject, and not absolutely or inherently irremediable This is strikingly exempli fied in the case in point, for here is an afflicted man, a physician himself, with his own life at stake, and presumably au fait with all the best treatment for relief as well as his medical confréres, doomed to death by all as a hopeless case of supposed incurain the physiological and normal line of health from ble disease, and yet recovers with very simple treat-Hence, in all such apparently irremediable cases, it would be better, guided by reason, to strive for relief and cure even under the most adverse circumstances, as I have seen cases the most uncompromising and seemingly hopeless, both acute and chronic, react and recover under appropriate treatment

But to return to the special subject of study lithemic, uremic, toxemic, chylæmic, or icteroid and bilious affections, defective and atrabile, gallstones, oxaluna, with other forms of lithiasis, and ammoniacal or alkaline urine, aneuria, constipation, Some time after, about twenty or more hæmorrhoids, hypochondria, pertussis, with analoyears ago, I reviewed the subject in the Medical and gous blood and nervous disease, both infectious and benign, dyspepsia, struma, syphilis, chronic rheumatism, and cutaneous affections of various kinds, degrees and parts, dependent upon or connected with superalkalinity and similar toxic states of the blood and system, defective or depraved secretion, etc., nitrohydrochloric acid is likewise very In the albuminuric, uramic, hepatic, cardiac, renal, puerperal, and other varieties of anasarca, or almost all forms and degrees of dropsy, it is very active in counteracting the underlying chemico vital derangement, restoring the balance of nutrition, with hepatic, renal and general secretion, producing diuresis, defecation, and in correcting the proximate cause of systemic disorder, removing its effects and reestablishing the healthy state of the en-It is inapplicable, however, where a tire economy calorifying alterative and diuretic is required, nitrous oxide being far superior as an oxidizer, vitalizer, chemico-organic revolutionizer, resolvent, stimulant, tonic and diuretic, curative not only of dropsy, but of a great variety of diseases and other abnormalties

In scrofulous and inflammatory states, eczema, herpes zoster, and other cutaneous eruptions, carbuncles, ulcerations, phlegmonous, gangrenous, purulent and suppurative affections generally, nitrohydrochloric acid is highly efficient as a resolvent and In acute inflammation its activity and value was strikingly exhibited in the case of a young lady of a nervo-lymphatic temperament, subject to that intractable ailment, periodontitis and alveolar abscess, whenever her blood becomes superalkaline Upon one occasion in the afternoon her teeth became loose and the lips and face rapidly swelled out of all proportions, accompanied with exquisite pain and suffering, threatening a general suppurative inflammation of the gums, integuments of the teeth and face, but by a liberal dose of nitrohydrochloric acid, ten drops of the dilute every hour to saturation, the superalkalinity of system was soon corrected, the disease conquered by the next morning and quickly subsided Nothing else was given or done, the acid being sufficient, and always relieving her Whenever the laxative effect of the acid is not prompt enough, a moderate purgative dose of citrate of magnesia may be added Moreover, by correcting the general dyscrasia upon which they are dependent, and acting as antalkaline, germicide, antiseptic, resolvent, alterative, tonic, etc, with soothing or appropriate local treatment, it also counteracts and discusses that malignant disorder, carbuncle, with its phlegmonous and gangrenous analogues Further, in that still more formidable general disease, variola, with its serious local lesions, and the extreme derangement of toxemia, pyemia, fever, inflammation, suppuration, contagion and infection, nitrohydrochloric acid seems to destroy the smallpox contagium, abort and overcome the fever, subdue the inflammation, prevent, shrivel and dry up the pustules, conquer the disease aborigo, and counteract and resolve the malady altogether, hence is especially adapted to the prophylactive and curative treatment of this dire pestilence, with all similar pathological conditions Other acids are also useful for the same purpose in varying degree

While either one of its constituents-nitric or hydrochloric acid, of this compound nitrohydrochloric acid, may have similar effects to a certain extent. they cannot separately fully exert the same influence as when combined, either in character, efficiercy or Other compatible acids mineral, vegetable. and animal, with acidulous fluids and fruits, as sour buttermilk, lemons, grapes, and edible tart things generally, may be used in conjunction therewith according to special indications, but of the general subject of acid medication and regimen I have treated some what fully in my work on the "Basic Pathology and Specific Treatment of Diphtheria, Typhoid, Septic, and Allied Diseases." In various complications of inflammatory, fibrous and plastic evudates, the neu tral or alkaline salts are useful adjuvants as solvents and discutients, as sodium and potassium chlorate. etc, while the acid is the main and basic remedy, with the more active stimulants and tonics

The constitutional effects of nitrohydochloric acid are produced by its external application in baths, ablu tions, etc., 'as it is absorbed, and is thus applied for the relief of various hepatic and other affections too well known to require further mention here. In cases of poisoned wounds and bites of irritated and rabid ani mals, I have been in the habit for many years of given ing with the best results, nitrohydochloric acid inter nally to counteract and destroy any toxic matter absorbed, as well as to apply it externally and chlor ine water or chlorinated soda with or without carbolic acid, to most effectually nullify and eradicate any venom which might be deposited or taken in, con tinuing them as freely and long as the patient desired to satisfy and quiet the mind with the assurance that the most effective measures internally and externally, had been employed for the destruction of infecting virus and the preservation of health and life Hydrarg bichlorid might be added both internally and externally, if thought necessary, with other ger micidal, antitoxic, alteratives, and disinfectants

Nitrohydrochloric acid thus affords a simple, safe, convenient, agreeable, expeditious, efficient and reli able means of disinfecting the living body of persons thoroughly, under the most adverse as well as favor able circumstances, as on ships at sea, at quarantine, in hospitals, and in private life, at any time with the least trouble and expense Although caustic and escharotic when concentrated it is innocuous when diluted, except when continued too long or fieely it may produce ptyalism and sore gums, hence should be occasionally intermitted in chronic diseases when ever anything of the kind threatens or occurs Otherwise it is agreeable to the stemach and system generally, and pleasant to take properly diluted, in from two to four drops of the strong or ten to twenty drops of the dilute acid every hour, two, or three hours, more or less frequently according to necessity In water, lemonade, infusion of barley, or other mild acidulous and bland liquid alone or sweetened to taste, it is an acceptable, antalkaline, germicidal, an tiseptic, antitoxic, disinfectant, refreshing, nutrient, restorative, and tonic beverage, very grateful and invigorating to those suffering with scorbutic, malan ous, hepatic, contagious, septic, febrile, infectious,

mephitic, and other affections As a nutritive diluent to promote its efficiency and increase the inges tion of acid, I usually give it with the juice of one lemon, in a goblet of sweetened water or other suitable menstruum, as freely as required and the stomach will bear, or if the quantity of fluid is objectionable, lessen the water and lime juice proportionately protect the teeth, it should be taken through a giass, clay, straw, or other non corrosive tube, and the mouth rinsed with lime, or other alkaline and plain water, though in edentulous children and adults it may be directly taken without such precautions, its localized action on the mouth being often desirable, always avoiding of course, its contact with metallic spoons, or other neutralizing and contaminating sub

In urgent and extreme cases, nitrohydrochloric acid should be pushed vigorously or given freely ad saturandum, to neutralize the superalkalimity of the blood and system, toxemia, septicemia, pyemia, uremia, and other pathological states, destroy the contagious and infectious principles, or germs, and resolve the concomitant abnormities as soon as possible, except in the extreme of Bright's disease, scarlatina, etc., wherein the kidneys are greatly disabled, when more discretion is necessary, so as not to throw it tends to resolve the renal disorder, restore the normal constitution, secretion and excretion of the urine, and excite diuresis, but in typhus, ship, yellow, bilious, malarial, and other fevers, variola, with the exanthemata, and other general and local diseases of a malignant, infectious or contagious, and scorbutic character, it may be given somewhat freely, unless the stomach is intolerant, when smaller quantities at shorter or longer intervals, by frequent sipping or sucking through a tube as it can be borne, according to indications or neccessity is more appropriate

In consequence of the cheapness and general efficiency of nitrohydrochloric acid it is peculiarly appropriate as a sanative and remedial agent for perlimited means, as well as the richer class. It is easily prepared by mixing gradually the two component acids-nitric and hydrochloric, in the proportion of three parts of the former to five of the latter, or of one to two, or equal parts of these acids, and after effervesence ceases to put and keep in a dark bottle in a cool, dark place, as it is apt to deteriorate from warmth, light, and time, hence it should be made in limited quantities, according to requirements When fresh it is of a golden yellow or orange color, and should not be kept long in solution sweetened with sugar or syrup as it is apt to form oxalic acid there with, a deadly poison, and of course, a dangerous mixture Therefore, to insure purity, avoid accidents, and otherwise, it would be to the interests of physicians to dispense it themselves in small quantities at a time as needed

I have thus presented a very general outline of the medical properties and applications of nitrohydro-

applicable to the prevention and cure of a wide range of abnormal conditions, both benign and malignant, local and constitutional, and affording a safe, convenient, certain and speedy means of resolving many serious diseases that now receive very complex, expensive, unsuccessful, and unsatisfactory treat-Therefore, I hope that this superexcellent medicament will be given a thorough trial and be put to the severest practical test by everyone having the opportunity to use it, so that the facts relating thereto may be more positively determined, for it is only by a multiplicity of observations and the experience of many recorded that the truth can be most fully established

116 N Fifteenth St, November, 1887

THE MORBID ANATOMY OF PERI-CÆCAL IN-FLAMMATION

Read before the Philadelphia County Medical Society, December, 14, 1887

> BY J H MUSSER, M D, OF PHILADELPHIA

Much confusion appears to exist in regard to the nomenclature of the inflammatory affections of the too much work on them suddenly or overpower them region we are about to consider. It may, therefore, with the materials of uriniferous elimination, though be well to state the meaning of the various terms which will be used in this discussion we shall understand inflammation of the cæcum, by peri-typhlitis, inflammation of the peritoneum covering the cecum, by para typhlitis, inflammation of the connective tissue behind the cæcum typhlitis is often used to include inflammation both of the cæcum and of the appendix We shall, as suggested by Dr Fitz, use the term appendicitis for inflammation of the appendix, appendicular peritonitis for typhlitis of the appendix and its serous covering, and para typhlitis for inflammation of the connective tissue around the appendix, or, if you please, peri-cæcal

It is well to know the relative importance of the sons in ships, quarantine, hospitals, and for people of inflammatory affections in this portion of the intes-Typhlitis has been considered by systinal tract tematic writers to be a frequent affection, and yet it is difficult for pathologists to find records of autopsies in which this condition has been found true that some writers, especially the Germans, have described cases, particularly of stercoral typhlitis, in which inflammation and ulceration of the mucous membrane of the cæcum, by pressure from fecal im paction, was present Most of us will, however, agree with Fagge that typhlitis is a good general expression used for all varieties of inflammation occurring in the right iliac fossa, but that in the majority of cases the correct term should be appendicitis Fagge relates a case of Williams' in which the patient had all the symptoms of peri-typhlitis with a tumor in the right iliac fossa. He was recovering from this when an acute affection of the pleura caused his death, and at the post-mortem there was found appendicitis, with ulceration and perforation, and not typhlitis. chloric acid believing it from my experience, to be of Dr Wilkes agrees with Fagge in this view, and they mestimable value as a sanative and medicinal agent, consider that the difference in degree of the inflammation alone accounts for the difference in the symptoms, | ner of making autopsy in such a case. There is and that the largest number of cases are due primarily to inflammation of the appendix

That inflammation may occur in the execum as it may occur in any other portion of the large intestine no one will deny But we can say from the records of Dr Fitz that perforation of the cacum is most rare, for in a most extensive research he was able to find but three cases, and in these instances, due to foreign bodies We shall, therefore, with Fagge, consider that appendicitis is the real affection that occurs in the region we are discussing (see Appen

A word with reference to the anatomy The cacum normally varies much in position as well as in shape On the blackboard are drawings of different forms of the cæcum, as detailed by Treves in his lectures on the anatomy of the intestinal canal He thinks that the cæcum is most frequently found, not in the right iliac fossa but on the psoas muscle itself, or in the pelvis, that the cæcum is entirely surrounded by peritoneum rather than only partially, and, therefore that behind there is no areolar tissue as was described by the older anatomists He does not believe, moreover, that there is a meso cæcum

It is also of importance to note variations in the appendix in the consideration of peri caecal inflam mation The usual position, as found by Mr Treves and by Dr Fitz, is behind the ileum and its mesen tery, with the tip pointing toward the spleen second most usual position is behind the cacum with the tip pointing upward Long appendices usually take this upward direction Fitz also refers to its lying on the psoas muscle with or without the tip in the pelvic cavity There are other variations in posi-It may stretch across the pelvis and become adherent to the sigmoid flexure of the colon, and in one instance I have seen the appendix in the inguinal canal associated with hernia In another instance it was adherent to a pyosalpinx (see Appendix, II) The appendix varies in size, it varies as regards the character of its walls, and it varies as regards its contents It may vary in length from one and one fourth to nine inches There is a famous specimen in which the appendix was nine inches in length It lay be hind the colon, reaching to the under surface of the liver (see Appendix, III) In cases dying from causes not associated with this region, the appendix is often found as a cord like body, having been the seat of previous inflammation. It may have a dilatation either at its blind extremity or in some portion of its length, especially pouch like at the mouth Sometimes the entire canal is dilated and filled with catarrhal products

The character of the contents is of importance Various articles have been found in the appendix, but chiefly fecal masses Seeds of various kinds, buttons, bristles, worms, shot, pins and gall stones have also been found It is in all probability on account of the presence of these foreign bodies that we have the serious secondary symptoms that arise (see Appendix, IV)

I shall next speak of the morbid anatomy of pericæcal inflammation

usually an extreme degree of peritonitis, and unless the post mortem is made with great care, it will be impossible to find the seat of perforation, if one exist. and the exact conditions and relations of the pen cæcal inflammation The casiest method is to begin at the first loop of intestine that is reached and from that unravel the intestines, separating with great care the adherent parts. If a source of obstruction is found, tie the bowel on both sides and examine the portion in situ, turning the gut if necessary Such an examination is absolutely necessary in order to

make a thorough study of the part

Inflammation of the appendix occurs both of the simple catarrhal and of the ulcerative type. That we have catarrhal inflammation we know from the lessons of morbid anatomy Clinically, it would be impossible to determine the presence of such an in flammation, however Catarrhal inflammation with succeeding ulceration, local peritonitis, and, finally, perforation, also occurs, and the following conditions are generally found after death. In the first place, on section of the abdominal walls there is found, especially in the right iliac region, an ædem atous state of the tissues, not only may there be serous ædema, but there may also be infiltration of pus, due to the burrowing from the primary abscess The peritoneum, if involved will exhibit an intense degree of inflammation with the characteristic injection, sometimes general, sometimes limited, and more particularly to the right iliac fossa and the pel vis (see Appendix, V) Serum will be found in the peritoneal cavity, and in some instances pus, blood is occasionally found. In the more severe forms, especially, large flakes of lymph cover the intestines, the parietal peritoneum, and the abdominal organs The intestines are also more or less adherent to each other, depending upon the duration and degree of The location of the abscess, for the inflammation it is usually circumscribed, depends upon the posi There are three positions in tion of the cæcum which it is most frequently found-either in the right iliac fossa just above Poupart's ligament, or behind the cæcum, or in the pelvis In a case which re cently came under my observation, the abscess was found in the pelvis, one and one-half inches below the level of the psoas muscle, four inches from the anterior superior spine of the ilium on the right side, and two inches from Poupart's ligament In another case the abscess was found behind the cæcum in the connective tissue of the right iliac fossa of the abscess varies, sometimes containing only two or three ounces of pus, and in other instances as much as a pint or more has been removed walls of the abscess differ according to its position In the first instance mentioned the upper wall was made up of the cæcum, the right of the pelvic wall, while posteriorily and on the left it was circumscribed The walls of the abscess by the adherent intestine may be made up by the intestines alone The appen dix is always found in the abscess, and has undergone changes varying in degree with the duration and se verity of the inflammation Inflammation and ulcer First, with regard to the man- ation of the mucous membrane, serous or purulent

infiltration of the walls, with perforative ulceration and encysted or localized peritonitis, are discovered and cannot be found, having undergone dissolution, The perforation varies in size, (see Appendix, VI) sometimes it completely surrounds the appendix, or even severs it in two, or it is sufficiently large to admit a probe only, while even in other instances it Sometimes two or more inflammation of the appendix can scarcely be detected perforations are found, and frequently they are covered by recent lymph The canal of the appendix We usually find in the canal, is very often dilated near the cocum, a foreign body, it may, however, be In the cases detailed by Dr found in the abscess Fitz, foreign bodies were found in 60 per cent other cases their presence or absence could not be positively determined, from haste at the autopsy, from their disintegration, or from their discharge into the bowel, so that the proportion is probably larger than There is one point of importance in refer ence to the surgery of this region, and that is, that the perforation usually occurs within one and one half or two inches of the colon Whatever may be the length of the appendix, the perforation is as a rule found at the point just indicated

There are, of course, many cases that do not ter minate fatally Under such circumstances resolution takes place, or the abscess becomes encysted, or the abscess ruptures into some neighboring organ Bernardy related a case to me where rupture occurred in the upper portion of the rectum and also through the abdominal wall of the umbilious Dr Edwards had a case in which fully one and one half inches of the appendix had sloughed off, the abscess ruptured into the bowel, carrying with it the portion of the appendix and a mass of grape seeds, which were dis charged together The abscess may discharge through the abdominal wall, through the scrotum, into the hip joint, through the loin or the perineum, or in other directions Sometimes the pus burrows up ward, even as high as and into the pleural cavity may say that the bladder is a favorite seat for the rup ture of such abscesses

That cure may take place in cases of perforation of the vermiform appendix, this specimen distinctly shows It was prepared by Dr William Pepper, and is in the museum of the Pennsylvania Hospital The patient died of another affection The appendix was cord like, except in one place, where an old perfor ation was seen, with organized blood clot and lymph

These are the chief points in regard to the morbid anatomy of pericaccal inflammation In the first place, that peri cæcal inflammation is due to the inflammation, ulceration, and rupture the appendix vermiformis with the secondary formation of an abscess, that the position of the abscess depends entirely upon the position of the appendix, that the further course of the abscess cannot be determined, that in the larger number of cases the inflammation and ulceration are due to the

appears to be as stated, and while it may appear to be a refinement of terms to differentiate between In some instances a portion has sloughed entirely off typhlitis and appendicitis, it is almost necessary in order that a correct and well defined appreciation of in others it is found as a soft mass of necrosed tissue the pathology be determined, so that early and proper Unless such a refinetreatment may be instituted ment be made, cases of this kind will be frequently treated as simple typhlitis, whereas in 90 per cent, or perhaps a larger proportion, they are cases of

APPENDIX

The following notes are presented explanatory in a measure of They are based on the appearance of the specimens the writer had on exhibition at the meeting, collected from priate sources and from hospitals Some twenty specimens were obtained for this purpose The writer's best thanks are due to Drs Pepper, Edwards, Bernardy, Willard, Woodbury, Long stretli, Ilinsdale, Seltzer, Daland, Bodamer, and others, for notes and specimens Some excellent descriptions may be seen in the catalogue of the museum of the Pennsylvania Hospital

I Strictly speaking, we should say the sequence of typhlitis, perity philitis, and peri creal abscess occurs but rarely A typh litis and perityphlitis, no doubt, are seen clinically, but the cases do not come to the post mortem table unless perforative appendicitis occurs conjointly For this reason, and because similar sequences of lesions does not obtain in similar inflammations of the large bowel under like circumstances, as fecal impaction from stricture, or from paresis in the aged or after typhoid fever, the pathologist may well doubt the existence of perityphlitis and succeeding peri crecal abscess In the more violent infiamma tions of the gastro intestinal tract, in gastritis, enteritis, or in dysentery, such sequential lesions are not found

II Case 1 - Matilda Thomas, at 104 years Cause of death, exhaustion of strangulated hernia Abstract from autopsy rec ord, Philadelphia Hospital Abdominal cavity, no effusion, adhesion of large and small intestine, appendix dilated to size of first finger, end of it incarcerated in inguinal canal, with po tion of mesentery and small intestine, so much post mortem discoloration could not determine color of parts, local peritonitis, in canal and layers of muscles and fasciæ consider able amount of greenish pus, the portions outside of canal ad herent to the bladder, uterus, and overy, the letter being in cluded in the inflammatory mass Organs occupy normal posi

Case 2 - Philadelphia Hospital Female, et 22 years Ap pendix four inches long, dilated to size of finger, contained mucoid

fluid adherent to a large pyosalpinx
III From Museum of Pennsylvania Hospital, described by (See a catalogue of Pathological Museum, 1869)

IV Cranberry seeds (Mears) Fecal concretions (Hartshorne, Daland, Hinsdale, Seltzer, Musser) Grape seeds (Edwards, W A) A concretion one half inch long and one quarter inch thick, cone shaped, apex pointing toward the perforation of the appendix, base concave, firm fecal color and odor, in mass of which black bodies, size of cranberry seed were found. It completely occluded the canal, causing retention of the natural se cretion inflammation, ulceration, etc. The perforation was cretion inflammation, ulceration, etc. The perforation was one eighth inch from the apex of the concretion (Musser). A

one eighth inch from the apex of the concretion (Musser) A phosphatic concretion in Mütter Museum (Woodbury)

V General peritoritis (Woodbury, Willard, Hall, [Mütter Museum], Bodamer, [Case I], Seltzer, Pepper [1637 Pennsylvania Hospital Museum atalogue No 136810], Meigs [Pennsylvania Hospital Museum catalogue No 136810], Meigs [Pennsylvania Hospital, 1366] Benardy, Musser] Local peritoritis [Mears, Pepper, Husselle Bodaper [Case a. J. Hartchorne, Musser]

Himsdale, Bodamer [Case 2], Hartshorne, Musser)
VI Two inches of the appendix necrosed, slate gray color, soft floated in the pus, attached slightly to the healthy stump Museer) Appendix sloughed off Mule, 40 years Periton its fourth day, (Bodamer, Case 1) Appendix one and a half inches long, ulceration one inch from bowel, a few lines in diam eter No communication between appendix and crecum Gela-timous mass in appendix (Bodamer, Case 2) Appendix removed by amputation, was attached by its blind extremity to omentum, also removed

Length two inches, one inch occluded by con presence of a foreign body occluding the canal—a cretions, and one dilated and empty (Woodbury, Mutter Mu retention inflammation The sequence of events seem) Appendix two and a half inches long Ulceration three

lines in length and two inches in width, half an inch from extremity Canal not dilated Walls not thickened (Willard) Mütter Museum, College of Physicians, of Philadelphia, A D Hall VA, excum and portions of ileum, peforation periton itis, death. When recently examined a perforating ulcer of the appendix was found, through which a grooved director could be passed, communicating freely with the peritoneal cavity. There are two perforations, one, 2 5 centimetres, from the caput coli, the muscular coating of the appendix appeared to have been de stroyed by ulcerations, and then the peritoneal coat had given way in three small openings about 2 millimetres in line. These

way in three small openings about 2 millimetres in line. These were arranged in a triangular manner. The second was a solitary perforation, 4 centimetres from the end of the appendix Although thick patches of lymph had been thrown out, no attempts to limit the effusion of foreign material by lymph barriers was discoverable. There was nothing to show that any foreign body or concretion or impaction had been the origin of the le Fluid pus was found in the interspace between liver and stomach, and about six ounces of turbid serum were in pelvic

Mrs C at 25 years, mother of two children, youngest four months old Death on fifth day of idiopathic peritonitis, with

The intestines were glued together

characteristic symptoms

Catalogue of Mutter Museum, College of Physicians, E. Harts Appendix, gangrene and perforations Recently ob served the appendix was inflamed and greatly enlarged, and intimately adherent to surrounding parts, was distended to a sac 5 centimetres long and 2 centimetres broad, and communicated by a small opening with the cavity of head of colon, walls thick ened, infiltrated with dark blood and serum, its peritoneal coat highly injected and covered with evudation, and the mucous lining showing traces of extensive inflammation, which had run into a superficial gangrene The latter had produced a honeycombed appearance of the inner surface, and had covered it with a dark greenish, pulpy, and extremely fetid matter On its side, about two thirds of the distance from the excal extremity, an ulcerated perforation, some 6 lines in length and 3 lines in width, was found, from which fluid feerl and other matter had been flowing in small quantities Immediately behind this opening, and encased by the appendix, a peculiar, moderately hard concretion, of the shape and color of an elongated olive stone, presented itself, having been apparently moulded by the cavity by which it was contained. This was in layers, and was probably hardened fecal excrement which had accumulated by slow oozing of the fluid contents of the large intestine through the small orifice of the distended appendix. No other evidence of morbid action in abdominal cavity, except congestion and ædema of ovaries and fimbriated tubes. Death on the fifth day from peritonitis

THE DIAGNOSIS OF PERI-CÆCAL INFLAMMATION

Read before the Philadelphia County Medical Society, Dicember 14, 1887

BY WILLIAM PEPPER, M D, LL D,

PROFESSOR OF THE PRINCIPLES AND PRACTICE OF MEDICINE IN THE UNIVERSITY OF PENNSYLVANIA

I fear that the remarks that I shall make may seem vague and desultory, for it is difficult to compress what is to be said within the very reasonable limit assigned I am quite willing to accept the terms suggested by Dr Musser, but I do not think that the term paratyphlitis, as indicating inflammation of the peri-cæcal connective tissue, is likely to gain general usage It is probable that the term peri typhlitis will continue to be used to indicate in flammation of the walls of the cæcum, and of the the cæcum and the peri-cæcal connective tissue, and neighboring connective tissue Still, anatomically and for purity of nomenclature, it may be well to recognize para-typhlitis, as indicating inflammation such cases of the peri cæcal connective tissue

are very striking I would merely add to these one resolution I have the records of scores of such

or two facts In the first place, the appendix pre sents evidences of a disease in a very large number of indifferent autopsies I remember the report of a series of 300 autopsies, in which there were signs of disease of the appendix in 33 per cent, although in none of these was there a history of typhlitis We have this little organ, singularly useless physic logically so far as we know, placed in a singularly unfavorable position anatomically, very liable to become impacted, so formed that escape of its contents is very difficult, and very prone to become dis-We must recognize the fact that the ap pendix is often diseased when we have no reason to suspect such a condition I cannot agree, however, that the cocum also is not often the seat of disease In a long experience in which I have paid much at tention to these diseases, I have collected a number of instances of independent cæcal disease, where the cacum alone presented lesions, sometimes going on to chronic inflammation, ulceration, and perfora The real condition of things seems to be this In the first place, there are many cases of mild ap pendicitis which cannot be recognized during life, in the second place, there are a considerable number of cases of typhlitis where the symptoms are chiefly due to inflammation of the walls of the cæcum and of the peri caecal connective tissue, which end in re It is impossible in these cases to determine covery what proportion has been due to appendicitis Finally, there are also a good many cases of severe appendicitis resulting in ulceration and perforation, with the formation of circumscribed abscess or of If we could accept the view general peritonitis that perforation of the appendix, leading to pen typhlitis or para typhlitis often resulted in recovery by resolution, it would be a matter of comparative indifference where the lesion was chiefly situated, but do clinical experience and anatomical records justify the view, that perforation of the appendix, followed by peri- and para typhlitis, often ends in resolution? It is true, that I have found one speci men, and that others have been placed on record where perforation of the appendix has not been followed by grave results, but do these amount to anything comparable with the great mass of cases where lesions of the appendix have occurred with peritonitis and fatal result unless relieved by opera It seems to me that we have to recognize that while in typhlitis, peri-typhlitis, and para-typhlitis, m all probability appendicitis always exists, yet it is often present in only a very mild degree, and can cause only a small portion of the symptoms This conception seems necessary to a correct diagnosis of these lesions, it is necessary in guiding our treatment

There appear, then, to be two classes of cases In one the affection is more limited to the walls of the appendix is affected to a comparatively slight We have no record as to the frequency of degree The record is not to be sought on the post mortem table, for the large proportion of these The anatomical points made clear by Dr Musser, cases, if properly treated from the beginning, end in

cases, the vast majority of which ended in resolution crecal region so terminating So large is the number that I cannot consider that in any large proportion of them did perforation of the appendix occur the initial symptom, not excruciating in character, nor associated with the evidences of collapse, often accompanied with nausea and vomiting, and with elevation of temperature, which continues to rise until decided fever is present. With these symptoms there is excruciating tenderness in the right iliac fossa, a sense of fulness and induration, not rarely with dorsal decubitus and flexed thigh, with a constipated condition of the bowels possibly pre ceded by one or two irritative movements during the first day, and with these there is considerable ac celeration of the pulse In proportion as the induration and swelling is early and marked, it has seemed to me that the chances are that the appendix is not seriously involved, but that the affection is chiefly one of inflammation of the walls of the cæcum and of the pericæcal connective tissue with exudation, and I have no doubt the fever may not rise very rapidly tion of the cæcum

from food and absolute avoidance of interference with the state of the bowels be adhered to, if local depletion be employed, if counter-irritation followed by if the convalescent is properly treated—that is, if mentioned these restrictions be insisted upon until the sensibil [induced when the stomach is taxed ity of the part is entirely removed of the convalescence from the primary attack of case

On the other hand, we know very well that such cases not rarely go on without resolving, that the invated and possibly are such as to indicate suppuration, and that at periods varying from seven to fifteen days pus formation occurs. Such cases de mand operative interference, and are successfully treated by the Parker operation The existence of five to ten days pus can often be demonstrated by exploratory punc ture with a fine aspirator needle

There is a second class of cases of an entirely op posite character, with which we are all equally fa Here the patient may apparently have been in almost perfect health, for perforation of the apof which the patient had complained But in these appendix, is no longer able to circulate and escape, group of cases

and the irritating frecal matter excite more serious I think the experience of those I address would inflammation in the walls of the appendix, ulcergive a large number of cases of inflammation in the ation is established, and finally, perforation occurs, and the symptoms of the attack begin rarely seen a fatal case of disease of the appendix I think where there was not stenosis of its orifice I have seen them, these cases are marked by pain as that, to a large extent, it is this tendency to closure. and the accumulation of the secretions and of fæcal matter, that causes the more serious type of inflammation and the occurrence of perforative appendicitis

The first symptom in these cases is usually intense and excruciating pain, so severe at times as to cause collapse, occasionally so severe as to be followed by death in a few hours Following this there is the rapid development of the signs of peritonitis pulse become frequent There is marked tenderness, not in the iliac region only, but also toward the middle of the abdomen The belly becomes distended, but there is no induration to be felt, there may even be no fulness in the right ileo cæcal region The appendix often lies under the cæcum, and I have frequently percussed these cases with great care without finding any evidence of dulness or of After the occurrence of the initial pain, induration There may be usually accompanied with considerable feecal impactionly moderate febrile reaction for one, two, or three days, associated with continued, moderate pain simu-If absolute rest be insisted upon, if abstinence lating an ordinary catarrhal attack with intestinal For two or three days these cases may be viewed as not being seriously ill, so delusive may be the symptoms after the subsidence of the initial pain the application of the ice bag, or warm fomentations In these cases there is absence of ileo cæcal infilbe employed, and if the internal use of opium and tration, or induration, or tumor, or prominence, or mercury be begun early, the vast majority of such dulness, on percussion There is in these cases a cases terminate in resolution and complete recovery less degree of vomiting than in the first class of cases The vomiting is often rare, and only The bowels I am satisfied are quiet, but not so obstinately constipated and that the well known tendency to the recurrence of not so strongly resistant to the action of laxatives as typhlitis is largely dependent upon the management in typhlitis, with more or less impaction of the Such cæcum After a time which varies with the intensity would seem to be the diagnostic marks of this type of the attack, and the direction which the exuded matter has taken, there appear the symptoms of a rapidly spreading general peritonitis. The belly becomes greatly distended and tender, the coils of duration extends, that the symptoms become aggra- intestines are outlined through the tightly stretched The vomiting becomes frequent, the temperature rises, the pulse grows thready and rapid, and we have the familiar signs of general peritonitis These cases end fatally, from exhaustion, in from

Here are two groups of cases which seem to me to differ not only in degree, but also to differ in the seat of their lesion and the character of that lesion I cannot believe that in any great number of cases of the first group there is perforation of the appendix Yet, unless perforation is present, we have seen that pendix may occur without any previous symptoms all the other lesions of the appendix may exist without the production of any symptoms Therefore, I cases there has been a catarrhal appendicitis, the cannot attribute to ordinary appendicitis the sympfæcal matter which is present in nearly every healthy toms of peri cæcal inflammation which mark the first These symptoms we must assign to because the outlet is partially closed by the swelling the inflammation of the walls of the cæcum and of of the mucous membrane, the pent up secretions the peri cacal connective tissue in chief part

It is, therefore, of momentous importance that we should be able to diagnose the sort of case that we have to deal with, and that at the earliest moment I should say, that in proportion as the tumor, prominence, induration, and dulness are marked, delay is safe, especially if rectal examination—the mention of which I have postponed until the last—does not indicate any fulness on the right side of the roof of If this is present, it indicates an amount of exudation which will end in abscess, and is a strong indication for operation If digital examination, pushed if necessary to the extent of the introduction of the whole hand, reveals no fulness in the roof of the pelvis, I think delay for several days is justifiable, and with such treatment as I have indicated, the symptoms will, in the majority of cases, subside, and although the case is fraught with great anxiety, resolution will begin, the symptoms will become milder, and the patient recover, and under proper treatment the part will be restored to absolute health without relapse Even if frequent relapse occur—and I have seen as many as fifteen or eighteen in the same individual—complete recovery may follow a protracted course of treatment with absolute rest, rigidly restricted diet, constant counterirritation, and suitable alterative treatment internally

Of course, if after waiting a few days, there is no evidence of the commencement of resolution, if the fever is sustained, particularly if it assume a hectic type, we know from experience that suppuration will not be long postponed Exploratory puncture should be made, and operation should follow without

The most important question to be considered is What is the earliest moment that we can establish the diagnosis? On account of the shortness of the time, I limit myself to the differential diagnosis between the two forms of cæcal inflammation to which The initial symptoms give us some I have referred indication of the seat and the gravity of the attack Typhlitis and peri-typhlitis soon offer demonstrable symptoms, but as the appendix is hidden under the intestine, the symptoms of perforated appendicitis are often obscure for two or three days The most careful palpation may fail to show the slightest ful- in particular, strive to point out the indications for The patient may complain of pain over the operation in the two classes of cases cæcum, or over the hypogastrium External examination does not aid us in the diagnosis any special features which will help us? I would been asserted that general peritonitis is not a contra again refer to the importance of the rectal examina-Early and oft-repeated rectal examination is the most important diagnostic means we possess in this class of affections Often, on opening the body after death, there is no appearance of peritonitis in velops death results under medical treatment the exposed coils of intestine There is no inflammatory process seen outside of the cæcum, and nothing is found until the cæcum is lifted up, when it is discovered that the inflammation is behind it, and extends downward to the pelvis Sometimes, on removing a layer of lymph, you disclose the occasion pelvis filled with pus In such cases, if rectal examination should give a sense of distention of the right side of the pelvic roof, might not a puncture be made with a curved exploring needle introduced

through the rectum? This has suggested itself to me, although I have never tried it. In this way we might demonstrate the presence of pus, when it would not be possible to do so through the external abdominal wall

In many of these cases there has seemed to be an unusual abundance of urine and an increased frequency of urination I think that the former is associated with the absence of vomiting and peri typhlitis, there is often so much vomiting that very little liquid is absorbed, and the urine be comes concentrated I have seen cases of perfora tion of the appendix, where the urine was voided at intervals of an hour or an hour and a half, the total amounting to a large quantity

Again, it has seemed to me that in perforation the pain is more apt to extend to the middle line of the abdomen, and sometimes into the genitals, especi ally into the right testicle and spermatic cord

The agony of pain which marks the initial lesion, the development of fever, the acceleration of the pulse, the distension of the abdomen, the pain refer red to some point in the ileo cæcal region, the com parative rarity of vomiting, the absence of induration and tumor, possibly, the ability to detect fulness or induration in the roof of the pelvis by rectal exam ination, the frequent micturition with a free supply of urine, the pain possibly radiating in the direction of the genitals, have, I think, been in the majority of cases, the most marked symptoms

Suppuration occurs in these cases very early, even earlier than in the other group of cases In one case in which Dr Keen operated for me early as the close of the third day, perhaps the earliest operation on record, a pint of pus was found in the pelvis

So much for the suggestions that I am able to offer with reference to these important affections The point to which we should bend our evertions, should be to determine the early diagnostic symptoms of these two varieties of cæcal inflammation, to see whether there is a constancy in the description that I have given of the first type of inflammation of the walls of the cæcum which, under proper treatment, We should, offers a considerable hope of recovery

I would ask if general peritonitis may not be a Are there positive indication for instant operation It has indication to laparotomy under other circumstances If this is the case, the development of general peri tonitis in a case of inflammation of the cæcal region would at once indicate operation, for after this de

I will not take up the question of the diagnosis of these affections from intussusception and internal Although this would be necessary for strangulation a comprehensive discussion of the subject, the time at our disposal will not permit it on the present

THE TREATMENT OF PERI-CÆCAL INFLAMMATION

Read before the Philadelphia County Medical Society, December
14 1887

BY THOMAS G MORTON, M D, SURGEON TO THE LENNS LIVANIA HOSPITAL

For practical purposes the treatment of perioccal inflammation must be divided into two subdivisions that of the pre purulent, and that of the post-purulent stage, or, first, before formation of pus or of appendix perforation, and, second, after that event

The treatment of the pre purulent, irritative, or simple inflammatory disorders of the execum and its surroundings, or appendix, should consist of rest in bed, restriction of diet to nourishing liquids, hot poultices or fomentations frequently replaced upon the parts, perhaps local depletion, and possibly the hypodermatic exhibition of morphia to control pain, whilst the bowels should be kept open and free from accumulation of gas and faces by the administration of salines and enemas—perhaps with the addition of turpentine to the latter

Those disposed to cavil at the advice just given I would ask. Shall we keep the bowels in liquid condition, and so prepared to best resist peritoritis, should it occur, whilst at the same time the mere draining of fluid from the intestines and surrounding parts would influence for the better the peri cæcal inflammation? or shall we paralyze, and congest, and inflate the bowels by the old fashioned "splinting" treatment, and thus beckon on peritoritis?

Pain of intense character would often be as much an indication for operative relief as for morphia

- Prompt resolution should take place in cases which are not to go on to the stage of pus formation, and very long continuance of symptoms, or relapses, or recurrences, would be strong indications for surgical interference

The presence of such tedious recovery, relapse, or recurrence would point to the probable presence of conditions exceedingly dangerous to the patient from hability to general peritonitis or perforation at any time, they further would point, as a rule, to the appendix as the source of irritation and danger. Indeed, in man, that worse than useless appendage must be regarded as the root of most evil in the region under consideration.

To illustrate this point by a single impressive instance, let me quote a case which was reported by me in the Philadelphia Medical Times, of June 11, It was that of a woman who for a long time, had been having mild attacks of abdominal pain, located in the region of the cæcum, which had usually yielded with great promptness to anodynes During the course of the last attack of that nature, violent symptoms of perforation and general peritonitis came I did not see her until two days after this un fortunate accident, but, though she was then in a most desperate condition, I advised operation as her only chance, and forthwith performed abdominal sec-The appendix was found perforated in two places, and violent general purulent peritonitis going She died a few hours afterward, but I felt better satisfied that the operation had been performed

Coming now to our second division, suppose the process to have gone beyond the simple, inflammatory stage, and the presence of pus, even a few drops, to have been diagnosticated

In the great majority of instances, the presence of even a minute amount of pus so near to the peritoneum would be of vastly more risk to the patient than that of abdominal section for its relief. Hence, I should operate whenever the diagnosis of pus had been made—occasionally even without positive diagnosis. But in this paper diagnosis of distinct conditions is presumed, and I am expected simply to outline treatment for those defined conditions, hence, without qualification, I repeat that, pus being present in the region of the cæcum, operation is positively indicated

Many other risks are to be taken rather than those of purulent peritonitis, for early interference will save most, if not nearly all cases from this latter dread complication, while the danger of operation becomes slight compared to that of rampant abdominal inflammation

Local or general peritonitis supervening in a person that has a history of cæcal trouble, or starting during a first attack, would more than justify operation

At a later, or even perhaps chronic stage of the disorder, all available diagnostic skill must be exerted when a peri cæcal abscess may have pointed in an anomalous situation, and we must ever adhere to the modern surgical rule, always to attack pus at its source if possible When the cæcum is normally placed, this is always feasible, if the disease be recognized

Coming now to speak of actual operative measures, the patient, as a matter of course, must be got into the best possible condition, and surgically clean by the usual methods of attempting these ends Asepsis should rigidly prevail throughout

The aspirating needle must never be used, for if it does not find pus we cannot be sure that none is present, whilst its own dangers are not inconsiderable. In these cases it is a poor and especially unsafe diagnostic resource.

The abdominal incision should be lateral, not median. For if median the peritoneal cavity would often be needlessly opened, and the cæcum and appendix cannot well be reached or dealt with through

It But if lateral it can be made of less size, circumscribed abscesses will frequently be found before the peritoneum is reached, and at its base all necessary manipulations can be made upon the cæcum, appendix, and surrounding parts without opening the peritoneal cavity, whilst should the abscess or ulcer have reached that cavity, the intestines, etc, can just as well be examined and cleansed through a lateral as a median incision

Attempts to reach the cæcum by the lateral or subperitoneal incision without opening that membrane will nearly always be found impossible to carry out, and even should the organ be so reached lesions cannot be properly dealt with at the bottom of such an opening

The favored or lateral incision should begin at a point an inch above Poupart's ligament and to the

outer side of the right linear semilunaris, be continued in a vertical direction upward about four perforation likewise should receive identical treat inches, and carried down through the parietal mus cles until pus, cæcum, or peritoneum encircling that region organ be reached if necessary cavity clean, and get a clear view and careful exam ination of the cæcum and appendix. The latter is almost always the seat of trouble, and perhaps it would be well to excise it whilst we have the chance in any case, for any cæcal trouble would be likely in time to excite disorder of its appendages Without ated a doubt it should be so treated if found inflamed, perforated, or harboring a foreign body best be accomplished by ligating it as close as possible to its excal attachment and cutting it off Cecal perforations, if found, should be closed by Lembert sutures, whilst ulcers, which may be present but have not perforated, should by the same means be turned into the bowel lumen If the general peritoneal cavity has not been involved, the abscess or crecum or what not in view should be gently curetted, washed out with a 1 to 1,000 bichloride of mercury solution, a large glass or rubber drain introduced, and the ab dominal wound closed around it with silk sutures, and a dressing superimposed

If the peritoneum has become involved and but a short time before the operation, the whole abdominal cavity must be most thoroughly washed out with hot to 110°) distilled water, or 1 to 10,000 bichloride of mercury solution, and cleansed with sponges, and the foreign body, if that has been the source of trouble, searched for Should peritonitis be found further advanced the intestines must be withdrawn, and all adhesions parted with the finger or knife during the process of cleansing, and before they are returned to the peritoneal cavity In the case of general peritonitis a glass drain must be carried to the bottom of the pelvis and kept in working order by means of absorbent cotton ropes acting by capillar-If a second tube is not used for the superficial or peri cæcal abscess cavity, the drain going to the pelvis must have perforations as high in it as the level of the cæcum and any surrounding trouble

If the inflammation should be caused by the presence of a foreign body in the cæcum itself or by im paction of fæces, they must be either excised or urged by prudent force along the bowel operative removal a simple incision, afterward united by Lembert sutures, would answer every purpose

If portions of the cæcum have sloughed or become gangrenous, and the breaches of continuity are too large to approximate with Lembert sutures without producing dangerous constriction of the gut, we will have to content ourselves with the formation of an artificial anus

Post-operative treatment would consist in keeping the bowels in a fairly soluble condition, the tube clean, and in meeting threatening peritonitis by active purgation

These same general principles of treatment will hold even for those rare cases of displacement of the cæcum as into scrotal and other herniæ, its abdominal transposition, etc, the great question in these cases to a paper read by me in the winter of 1877-78, be will be diagnosis

Typhoid caecal or appendicular inflammation or ment as for the simple inflammatory disorders of that This whole subject is still in its infancy so Then the wound can be enlarged far as the majority of the profession are concerned, If pus be found, wash its containing but the child is of almost boundless promise

> I can terminate this going over the field of cæcal inflammatory disorders, their pathology, diagnosis, and treatment in no better way than by showing to you the patient whose case was reported to you by Dr Woodbury in April last, and upon whom I oper He has been benefited as much by the practi cal application of the principles of treatment which This can have been laid down, as any human creature ever can be

FERRI OXYDATUM VERSUS FERRI MURIATIS TINCTURA

Read before the Cincinnati Academy of Medicine January 17, 1887,

BY WILLIAM JUDKINS, MD,

TA IROFFSSOR OF HILSSOLOCY, AND CLINICAL LECTURER ON GENITO UI INALY SUFCEPTY, CINCINNATI COLLEGE OF MEDICINE AND SURGERY, CINCIN ATI, OHIO

A short time ago, in the discussion following avalu able paper read before the Acadeny, I suggested the administration of dialyzed iron to children Ex ception was taken to the suggestion by a distinguishment guished member, claiming it was worse than useless (or words to that effect)

We have with us, "as in the medical profession at large and in other spheres of human thought and ac tion"—as a recent member of this body, with an in ternational reputation, remarked in a lecture a few days ago—"two opposing parties, the optimists ard pessimists, the orthodox believers and the Nihilists The former accept everything unhesitatingly, the latter deny everything and ask for proofs, but they do not apply the Socratic method further, for when the proofs are forthcoming they continue to deny" A position of mere negation settles nothing The scriptural injunction, "to try all things and hold fast to that which is good," is the true position for us to Hence I have thought it of sufficient im portance to call attention this evening to the relative merits of iron in the two modes of preparation, di alyzed iron, and the muriatic tincture, for it was the last formula that was advocated as preferable to that What do we have? In the one a of the dialisate neutral solution of oxide of iron, in the colloid form, the result of endosmosis and diffusion with distilled In the other a combination water, elegance itself of metallic iron, muriatic acid, alcohol, nitric acid, and water, repulsive to the taste, injurious to the teeth, of uncertain potency and benefit, of uses for one only, a so-called tonic With the dialisate we have a pleasant and tasteless combination, harmless to the enamel, of uniform strength, of marked effi cacy, useful as a tonic, astringent, as well as an ever ready antidote to that rapidly death dealing poison,

arsenic If you will pardon me I will call attention in part fore the Cincinnati Medical Society, an abstract of which appears in the American Practitioner for 1878, In that article mention is made Vol 17, page 294 of 19 cases, including some in the "Children's Home," which for the time was under my care, during the Those reported absence of the regular attendant cases were in infants from 2 months to 2 years and 9 months old, all of a diarrhæal nature were treated with the dialysate, and the results were uniformly the same, a complete restoration of the secretions of the alimentary canal within 24 to 48 Since presenting these cases, others in which the iron has been ordered have been seen time and again, not only of summer diarrhæa of children, but many cases also in adults

During the last few months of my service at the Home for the Aged, two gallons of this useful and pleasant form of iron were administered to the in mates of that institution, none of whom were under 60, many over 70, and not a few beyond four score, one being in her 98th year. At the time of my resignation, and when sufficient time had elapsed to show a change in their condition, all, with two exceptions, showed and proved marked improvement by their appetite, general condition and weight ceptions were due to negligence on the part of the nurse in one case, and to the neglect of the other patient to take his medicine The exact number and age. I do not remember, but the greater number were ordered the medicine, and most of them had suffered in early years from taking the acid prep aration of iron made by the old formula

Mention must be made of one case, a woman, æt 78 years, who had been an inmate but a short time when she was taken sick with her ninth attack of erysipelas in fifteen years The only medicine given | was dialysed iron, liberal doses were given every two or three hours, with the result, according to her account, of cutting short the attack some five or six days, and, in her opinion, preventing the loss of her hair, which heretofore had invariably fallen out when convalescing

One, if not the principle, objection to the muri atic tincture of iron, is its want of uniformity is only efficacious as a remedial agent after having been six months in preparation Several ethers develop in which the efficacy of the drug is found it is made now by a large number of druggists a cheap solution of ferric chloride is purchased and diluted, some even diluting the spirits This is due to the decline of legitimate pharmacy, and the rise of commercial manufactures I have found that all kinds of iron are used in the early steps of this manufacture, scrap iron, iron horse shoes, old iron, and in fact all kinds except the best cut iron wire has been asserted that if twenty samples of the tincture were taken and evaporated down, no two would be alike in the amount of iron scales left as a resi One sample was shown that was merely dinal preparation The nitric acid that is used, as a of dialyzed iron, he speedily recovered rule, is so highly adulterated that cases resembling

arsenic poisoning have been known, due to the impurity of that article

As an antidote for arsenic we have an ever ready and efficacious remedy in the dialyzed iron Thos B Reed, of Philadelphia, reported about the first case, now several years ago, in which a fatal dose of arsenic was taken by mistake, but the patient was saved by the prompt administration of di-Dr Wm B Hazard, of St Louis, Dr alyzed iron Crenshaw, of Richmond, Va, and others, have been successful in cases of arsenic poisoning by the timely use of this antidote

As to the value of dialyzed iron as a prevention to poisoning of those exposed to the inhalation of air impregnated with fumes of arsenic, I can give as proof of its efficacy an extract of a paper by Dr Bullard, of Wicks, M T, that appeared in the Medical and Surgical Reporter recently He says

"In the smelting of lead and silver ores, one of the worst features is the constant inhalation of arsenical fumes When first employed by the Alta Montana Co to take charge of their hospital, a number of cases of arsenic poisoning came under my observation, and they were the more difficult to treat on account of their complication with 'leading' I tried the various remedies recommended for such cases, with but poor results At times I felt that the old saying, 'throw physic to the dogs,' was but too true and applicable At last I was led to try dialyzed iron, and met in all cases with most gratifying success, as is evidenced by the following cases

"Two carpenters were engaged in roofing a portion of the smelting building, and were in such a position that the wind carried the fumes into their faces Some workmen below noticed one of the men swaying to and fro, and about ready to fall, while the other was laboring hard to reach the ground were helped to the hospital, and were suffering with severe pain in the stomach and bowels, nausea, vomiting, vertigo, and with a profuse nose bleeding, tremor in lower limbs, and almost prostration glassful of dialyzed iron was given immediately nausea ceased, and at the end of one hour the men It were able to walk to their cabins, carrying with them a bottle of the iron, to be taken in drachm doses, every half hour At the end of twenty four hours they complained only of weakness, such as would The second day they result from a severe diarrhœa resumed work, entirely free from all pain and effects of the arsenic A number of men employed about the smelting furnaces, and especially in dipping the molten lead, have been apparently prostrated by the effects of the fumes, and were in every case relieved by dialyzed iron A mild purgative was given within I have recommended and, indeed, intwelve hours sisted on every man who is exposed to the arsenical fumes taking a dose of the iron daily The consequence has been that we have had but one case of poisoning needing hospital treatment, and this one luted muriatic acid, with enough coloring matter to insisted that his case was one of indigestion and dysgive it the proper shade, so that it would be difficult pepsia, and would take nothing till compelled to for any but an expert to distinguish it from an offici- enter the hospital, where, under the administration

"In the past two years I think I am safe in saying

that fully 200 cases of arsenical poisoning have been cured in this camp by dialyzed iron I could cite any or all of them, with symptoms, treatment, etc, but I think it unnecessary, as they so nearly resembled those already mentioned, suffice it to say, that all experienced the nausea, griping, vomiting, muscular tremor, etc I have given the iron, in half ounce doses, three times daily, with no constitutional disturbances whatever, even after ten or twenty days' The teeth are not discolored, bowadministration els not constipated, and digestion not deranged

"The men have learned its virtues, and come regularly with 'please fill my iron bottle again' They will not do without it, any more than an Irishman will do without his salts and senna It has saved many a man his wages and many a day of sickness In fact, I feel convinced that this preparation is indispensable where men are liable to inhale the fumes

of arsenic

"Without a remedy of this kind, I am satisfied no man, however strong, could inhale the fumes incident to smelting, where the ores contain arsenic, and stand it more than three or four days. I can fully and confidently recommend this preparation of iron to the profession, and even to foremen of smelting works where there is no physician, for it is harmless and in-'An ounce of prevention is worth a pound of cure,' or, a 'pound of cure' is worth infinitely more to a company than are hospitals full of men poisoned with arsenic Our hospital has been built, medicines bought, physicians and nurses paid, and accommodations for thirty beds provided, inside of two years, by a small monthly assessment on each miner and laborer employed by the company, and all are satisfied, none more so than the smelter hands, who can and do get a 'bottle of that iron' and keep at work"

For the purpose of pursuing this interesting subject further, I procured a full-grown jack rabbit, and with the assistance of my friend, Dr John D Jones, President of our State Board of Health, administered Before compoisonous doses of the arsenious acid mencing, the animal was firmly secured and a barbed arrow introduced into the pericardium by which the heart's action was noted, 135 beats, full, per minute, One-half a grain was apparently the normal state was given per os, with the result of reducing the heart's action to 120 per minute, although no decrease in fulness was noticed In five minutes another dose was administered in the same manner, through a glass funnel, with the result of still further reducing the pulsations to 112, and making them Some convulsive movements somewhat less full The next dose was were manifested at this time given endermically, reducing the heart's action to 10 and quite feeble, convulsive movements more marked and some squealing At this time we administered 3 fluid drachms of the iron with an equal portion of water, and soon noticed an increase in the heart's action, and more quietude in movement 2 fluid drachms of the iron were again given, diluted with water, after an interval of twenty minutes, with the result of gradually bringing the heart's pulsations up Patient was placed under the influence of opiates to 130, but not quite so full as before the experiment and rested comfortably During the afternoon, as commenced

Though undoubtedly a poor subject, as we could only have the objective symptoms, the iron certainly gave the desired relief, namely cessation of the excessive convulsive movements and a return of the heart's action almost to what it was when the animal was running over the office floor, before commencing the operation

To still further convince any doubter, by letter and by personal inquiry I have been enabled to learn of a number of the active practitioners of our city who are in the habit of ordering this drug, among whom are Drs C D Palmer, G Bruhl, Thaddeus Reamy, Giles Mitchell, B F Clark, - McMehan, F Forchheimer, W H Taylor, R Sattler, J D Jones, N P Dandridge, - Schmidt, J T Whittaker, C G Comegys, E W Walker, Wm Carson, A G Drury and others.

In the East we find as earnest advocates of the use of dialyzed iron, such as Drs Weir Mitchell, John H Packard, and Wm Pepper of Philadelphia, and Emmet, who in his "Diseases of Women" (p 549), in speaking of fibrous growths says "In the treatment of two cases recently I have been particularly pleased with the marked improvement following the In both instances other forms use of dialyzed iron of iron had caused headache and constipation, and an unexpected loss of blood "

I trust that facts enough have been brought forth to prove the efficacy of the drug, and that a faithful trial will convince the most skeptical of its benefit to those under our charge I can but think that Henry O Marcy, of Boston, struck the keynote of truth "The landmarks of our fathers have when he said become of small value, in these days of careful inquiry and patient research, of radicalism and reform, little respect is now paid to dogmatic teaching truths are reexamined, sifted from error, and associated with new facts in such a way that new teachings are evolved, and the 'thus far and no further' of even our student days is no longer heeded "

216 Race St

MEDICAL PROGRESS.

PROLONGED SURVIVAL AFTER EXTENSIVE FRAC-TURE OF THE PELVIS -DR S D HOWARD, of Elk Grove, Cal, reports the following case On October 31, 1887, T W was working in a gravel pit when the bank, which rose above him about twenty A mass of earth, that must have feet, caved weighed about 300 pounds, struck him over the lumbar and gleutal regions, throwing him against the hub of a wagon wheel which impinged on the pelvis He was taken out by his companions and When seen half an hour brought to town in a cart later he was suffering from shock and complaining of intense pain in the right ileac region, any moveof the parts being attended with agonizing pain. An extended examination was impossible, I could, however, feel distinct crepitation on the right side, and concluded that there was a fracture of the ilium

he was unable to pass water, I introduced a No 6 silver catheter The instrument apparently entered the bladder without difficulty, but no urine escaped, blood, both fluid and in clots, came away quite ticemia 1 The bladder did not appear to be distended, and no further attempt was made until late in the evening, and then with precisely the same result The following morning the bladder was distended, and, though anxious to make water, patient did not appear to suffer greatly from this cause I again in troduced the catheter, but fuled to enter the bladder Blood came through the instrument, and during the night some had flowed from the penis I then be heved that the right kidney had been injured, and that the bladder was full of blood At noon that day Dr J H Parkinson saw the case with me tient was fully anæsthetized (on the previous occasions I had given chloroform to partial insensi bility), and examined The bladder was distended, reaching almost to the umbilious, the abdomen on Repeated attempts with either side was resonant various instruments completely failed to enter the It was noticed when using a large silver instrument, that the point had a tendency to turn to the right when in the neighborhood of the prostatic On this occasion, also, blood escaped freely from the passage As it was evident that the urethra had been lacerated, and that operative treat ment was imperative, he was removed to the County Hospital for better facilities

On admission, Dr White succeeded, without much difficulty, in introducing a catheter, but though several sizes were used, large clots of blood choked the instruments so that little urine was obtained was decided to perform a perineal section, and the patient was placed on the table and anæsthetized The patient being placed in the lithotomy position, a large double current catheter was introduced, when the urine flowed freely This rendered the opera tion unnecessary and the instrument was tied in, the bladder having been first thoroughly irrigated careful examination then showed that there was a fracture of the right pubic bone, crepitus being distinctly obtained with one finger in the rectum was also apparent that there was extensive laceration of the urethra, implicating the wall of the bladder The catheter was kept in position for four days, antiseptic irrigations being used twice daily this the instrument was withdrawn, the urine passing freely by the urethra The injections were con tinued-solution of corrosive sublimate 1 3000 at first, and, later, solution of carbolic acid 1 100 being employed Mucilaginous drinks were given freely with quinine and opium, the latter very freely broad band of adhesive plaster was passed round the pelvis and over it a muslin bandage During micblood, small shreds and muco pus passed away On November 10, patient had a chill, and on the following day there was cedema of the thigh November 12, the cedema was more marked, distinct fluctuation below Poupart's ligament and ex tending through the tissues of the thigh was appar-

on the outer side of the thigh, nothing but serum escaping On November 13, fourteen days after receipt of injury, the patient died, evidently of september 13

Autopsy -Made November 14, by Dr White Body emaciated, marked cedema of the right lower extremity, two incisions on external side of thigh On opening the abdomen there was evidence of general peritonitis, the omentum was congested, a large ecchymosis, representing blood, effused behind the peritoneum, extending completely across the The descending colon, throughout posterior wall its entire length and including the rectum, appeared The inferior margin of to have been badly bruised the liver had the same appearance, also the right The right kidney was deeply congested, but uninjured, and the urine in its pelvis and ureter was The left kidney was intact On prolonging the incision down to the pubis, separation of the symphysis was found to the extent of one inch tending the incision outwards to examine the femoral canal on the right side, a comminuted fracture of the transverse ramus of the pubic bone was exposed The bone was bare, one of the fragments projecting The anterior and superior wall of into the bladder the bladder was absent, its place being supplied by the adjacent tissue, the viscus contained a small quantity of grumous matter, some of which could be identified as fibrin, the walls were covered with black tenacious mucous, the parts having a greyish-There was a free communicablack appearance tion through the femoral canal, between the bladder and a cavity in the anterior and internal aspect of the thigh, extending downwards for about six inches, this contained urine, unhealthy pus and tissue debris An examination of the perineum and urethra showed that the membranous and prostatic portions were absent, being replaced by a cavity communicating with the bladder, and also with the cavity in the thigh, allowing a sound introduced per urethram to pass readily into the femoral canal Further examination revealed the fact that there was a comminuted fracture of the right ischium at its junction with the ilium, symmetrical fractures of the left pubis and ischium, also comminuted, and a fracture of the sacrum on each side, close to the sacro iliac There was no attempt at repair in synchondrosis any of these fractures The parts were subsequently removed, and, in the process of cleaning, it was discovered that the third sacral vertebra was fractured through its body, and that a vertical fracture completely separated the laminæ and spinous processes of the first, second and third vertebræ from their bodies -Sacramento Meaical Times, January, 1888

pelvis and over it a muslin bandage During micturition, and when the bladder was irrigated, clots of blood, small shreds and muco pus passed away On November 10, patient had a chill, and on the following day there was ædema of the thigh On November 12, the ædema was more marked, distinct fluctuation below Poupart's ligament and extending the result of the uncertainty of the uncertainty particular infection, gonorithæa, chancre, tubercle—and adduces five cases of what he calls "ulcus rodens urethræ" This consists of a process of ulceration

To relieve tension two incisions were made notes of the autopsy

which slowly and continuously destroys the walls of sero purulent nature the urethra but not the adjacent tissues It gradu- of the ulcer did not seem to be much inflamed, but ally extends from the urethral orifice towards the they were very painful to touch bladder, and only ceases when the whole extent has were numerous brownish red nodules, singly or in There is no tendency to new formation, nor to healing For a long time it gives rise to so little inconvenience that the patient is quite unaware that there is anything wrong until the occurrence of marked suppuration, or of incontinence of urine attracts her attention. On examination, the meatus urethræ is found covered with pus and studded with a number of uneven swellings, between which are deep fissures, and thus the canal is rendered deep, crater-like ulcer. All the ulcers were painful These swellings resemble pointed condylomata, are soft to the feel, bleed very readily when amination of the lungs showed dulness high up to touched, and often fill the urethra as far as the neck the second rib on the left, where bronchial breathing of the bladder surface is felt, and the canal is found to have become granulations of the ulcers and in the sputa many narrower towards the bladder, so that it seems to be tubercle bacilli were found conical in form, the apex of the cone being towards and the lingual ulcer were treated with a 10 per cent the bladder From the vagina the urethra and periurethral tissue feel thickened and infiltrated Four of Dr Landau's patients were undoubtedly syphilitic, and the fifth also had probably suffered from the gum nodules, and the lingual ulcer, and they The author considers the ulceration to be syphilitic in character, but he only looks upon syphilis as the foundation on which the ulcerative process —the exact nature of which is unknown—develops The prognosis, as regards life, is not unfavorable, unless the process extend to the bladder and the lileo cacal region became very painful. She was diskidneys become implicated But a perfect cure is never to be looked for, and complete cessation of the destructive process is very rare Scraping, followed by the application of lactic acid, is the lations, the ulcers on the mucous membrane were treatment recommended by the author Anti-syphi- healed, and the large ulcer on the tongue was litic remedies proved useless, but Dr Landau thinks they might be of service at an earlier period, combined with the local application of lactic acid -London Medical Record, Dec 15, 1887

LUPUS AND CUTANEOUS TUBERCUIOSIS-At the last meeting of the German Scientific and Medical Association Professor Doutrei pront read a paper on this subject, in which he said that genuine cutane ous tuberculosis has been observed but very seldom, and so far as he knows never in a case of lupus But he had recently observed and treated two such The first case was that of a woman, 36 years old, who had suffered from "glands" since she was 20 years old Two years ago a nodule formed on the upper lip, immediately under the septum mobile, and in a short time several similar efflorescences covered both cheeks During this time the first nodule grew into a large ulcer, and later small ulcers appeared on the mucous membrane of both lips, nodules on the gums, and a large ulcer in the middle The patient had a cough that was periodical at first, but afterwards became constant She was small, delicate, emaciated and anæmic the centre of the upper lip was a rather deep ulcer, about the size of a quarter dollar, and its edges were simple, and easily and quickly done, not needing undermined, and the pale, reddish centre of which anæsthesia to produce muscular relaxation, and no was covered with small, grey, nodule like protuber- assistance is required -El Genio Medico Quin urgico, ances There was a small amount of secretion, of a Oct 31, 1887

The edges and surroundings groups as large as a bean, they were soft and easily pressed in, and between them cicatricial tissue was Two flat ulcers, with serrated edges, as large as a bean, were on the mucous membrane of the lower lip, their bottoms were almost flat, and on them could be seen grey miliary prominences There was a similar ulcer on the upper lip gums were also affected, and on the tongue was a to touch, and interfered with the patient's eating Ex-If the finger is introduced a rough and a slightly metallic rhonous were heard The lupus on the face pyrogallic acid salve, and sublimate bandages I 1000 Galvanic cauterization was used several times a day on the ulcers of the mucous membrane of the lips, were painted twice a day with a I per cent sublimate solution This treatment had a good effect on the lesions of the skin and mucous membrane, but the patient grew weaker and the pulmonary affection spread rapidly, diarrhœa set in, and pressure on the charged from the hospital at the desire of her family At that time the lupus of the cheeks was cicatrized, the ulcer on the upper lip was filled with good granucicatrized, but meanwhile cavernous formation had begun on the left of the tip of the tongue

In the second case tuberculosis of the subcutaneous connective tissue also existed to some degree, and distinctly on the chin, the patient had advanced tuberculosis of the lungs, and the sputum was full of This form of skin tuberculosis is tubercle bacıllı almost always secondary, and seen in cases of advanced lung-tuberculosis around the mouth or the Slight abrasions of the mucous membrane afford entrance to the bacilli, which produce the mil-1ary nodules that eventually ulcerate - Deutsche medicinishe Wochenschrift, No 43, 1887

NEW METHOD OF REDUCING DISLOCATION OF THE SHOULDER -DR P F ABRIL inverts the usual procedure for reducing a dislocation downwards of the humerus, by fixing the bone and making the glenoid cavity descend on the humeral head is made to stand with a crutch in the axilla, the surgeon holds the hand of the affected side, and makes slight downward traction, the patient now lets his body down, as if he were going down on his knees, At and by the pressure on the head of the humerus it is Abril claims that the method is slipped into place

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NITRITES IN ASTHMA

remedy that will give even temporary relief to so distressing a condition as that of asthma will be welcomed both by the sufferers from it and by the medical men According to the observations of Professor Fraser, of Edinburgh, in the nitrites we have a remedy that will relieve the paroxysm almost instantaneously He does not, however, claim that these drugs cure in the sense of giving immunity from fresh attacks This is not the first time the nitrites have been used for this purpose, but the cases cited by Professor Fraser emphasize their good effects

On reading the record of his cases one can but be surprised at the marvelous and almost intantaneous relief that his patients experienced At first the nitrite of amyl was administered by inhalation The patient to whom it was given was suffering intensely from the dyspnœa Two minutes after she began to inhale the drug the cooing, whistling and creaking râles disappeared and respiration was greatly relieved, but all the trouble returned as rapidly as it had been mitigated Repeated inhalations of the nitrate of amyl gave only the most flitting relief It was soon found, however, that the same drug administered by the stomach gave relief as quickly but of a much more permanent character For instance, 5 minims wheezing râles so characteristic of the trouble greatly relieved

In half an hour he was anxious to sleep, and rested comfortably through the remainder of the night

Similar trials with equally favorable fresults were made of ethyl nitrite, sodium nitrite and nitro glycerine In the cases described by Professor Fraser there was only one in which a second dose of the drug was needed. In this instance I grain of nitrite Two minutes after its adminisof soda was given tration the "wheezing was no longer audible, and the patient said he was 'quite easy'" The time relation of inspiration to expiration before taking the medicine was as one to two and a quarter, and four minutes after as one to one The patient remained comfortable for two and a half hours, and a little more than three hours after giving the first dose of the nitrite, as the breathing had again become difficult, 1/2 grain of the same drug was administered with equally prompt good effect, and this time there was no relapse

As regards the administration of the nitrites Professor Fraser seems to show preference for the sodium compound Nitroglycerine he found was apt to produce headache, which did not accompany the administration of the sodium nitrite The latter in one instance when administered in the dose of 5 grains showed slight toxic effects Usually 1 to 3 grains were sufficient to give relief

While we have dwelt thus upon the therapeutic value of Professor Fraser's experiments, for they seem to us the most important results of his work, we would do him injustice did we not call attention to his own conclusions from them They were instituted with the hope of throwing light upon the mode of production of these dyspnœic attacks Taking into consideration especially the two theories, the one of spasm of the bronchi, the other of active dilatation of the bronchial blood vessels and consequent stenosis of the bronchi, he reasoned that the nitrites as they dilate blood vessels would increase the dyspnæa if the second theory was correct but if the first was right would probably relieve it, acting upon the unstriped muscle fibres of the brenchi as they do on those of arterioles He therefore urges that his observations confirm the belief that spasmodic asthma is the result of contraction of the muscles of the bronchial tubes Certainly the bulk of evidence of all kinds points to of amyl nitrite were given to a patient with intense the correctness of this view, but we must differ from dyspnœa whose chest was filled with loud cooing and Professor Fraser in estimating the value of his obser-In vations with reference to it For as is well known thirty seconds the râles were diminished, and in one and as he himself states, the nitrites cause relaxation minute the patient declared the breathing very of the blood vessels throughout the body, and lowers In less than two minutes the blood-pressure Why then may they not, as it were, breathing was easy and the râles were infrequent deplete the vessels that may be over-filled in any one

organ or tissue by withdrawing the blood into the general circulation? Indeed his own sphygmographic tracings show high arterial tension before administration of the nitrites which is at once greatly lowered but which returns with the return of dyspnæic symptoms

It would be an interesting experiment to try the effect of the nitrites upon a case of urticaria when very considerable active dilatation of blood vessels occurs through the action of the vaso motors, a condition closely analogous to that claimed by many to exist in the bronchial tubes in asthma

WANTED-A DEPARTMENT OF HEALTH

The calling of a convention to meet in Washington on January 19 to discuss the subject of food adulteration is another reminder that this country has existed long enough without a Department of Health It has been and is proposed by some to establish a Bureau of Adulterations, at an expense of not more than \$50,000 for the first year By others it is proposed to turn the business of looking up and preventing food adulteration over to the Internal Revenue De partment, in case the tobacco tax be repealed have a law respecting the adulteration of tea, and have official inspectors of tea under the Treasury Department The amount of good work that is not done by these official inspectors is shown by the amount of adulterated tea that gains admission to the country every year, to be consumed or detected and thrown out by local boards of healtn The proposition to place the Internal Revenue Department in charge of food adulterations in case of a repeal of the tobacco tax, presupposes something that is exceedingly improbable and for which there is no good reason, and assumes that men whose duty has heretofore been to see that all tobacco was properly taxed will be capa ble at once of taking hold of the enormous question of adulterations of food

There is no good reason for suggesting that a special department of public health should be buried in a department of the Government that is entirely foreign to the whole matter, or for thinking that the public health of this country can be properly attended to by two or three scattered bureaus in dis similar Departments of the Government deny that this country has as much need of a Department of Health as a Department of the Navy Certainly there is a more pressing need of having some form of administration that will keep cholera, yellow fever and other diseases out of the country than of repelling hostile human invaders Our Navy, study of the law and to graduation in the Law De-

such as it is, is kept for possible future emergencies, we need a Public Health Department for pressing present necessities and dangers The country has been and is too often placed in jeopardy by the carelessness of irresponsible State Boards of Health, ignorant commissioners and so called experts inland States have repeatedly suffered from outbreaks of preventable diseases, on account of the gross carelessness of the health officers of the coast States, this would be obviated by a Government Health Depart-The coast States and cities have been placed in peril by diseased food from the inland States, this could be obviated When a manufacturer of impure food stuffs is prevented from selling his adulterated articles in one State he can still sell them in States in which there is no stringent law or supervision, this could be obviated As the matter now stands one State may quarantine or detain against cholera or yellow fever a sufficient length of time, while the health officers of the adjoining State make insufficient quarantine or detention, thus practically destroying the efficiency of the health regulations of the first State, this could be obviated by a Department of Public Health One State has regulations in regard to the heating and lighting of railway cars, and their sanitary conditions, while three or four other States through which the same railway may pass utterly disregards such matters The matter of vital statistics is alone large enough to require a special bureau, as is also the matter of construction, ventilation, and drainage of buildings

There is no ground for fear that a Department of Public Health, once established in this country, will be long idle for the want of something to do

CLARK GAPEN, until recently a well-known and highly esteemed citizen of Madison, Wis, made us a pleasant call yesterday, during which we learned that he had changed his residence to Chicago, and entered upon a new and important field of professional labor Clark Gapen graduated in medicine in the Chicago Medical College in 1875, and after serving one year as interne of the Cook County Hospital, he became the resident physician at the Wisconsin State Hospital for the Insane near Madison, the duties of which he discharged with marked ability for three years, after which he pursued a successful general practice of medicine in Madison, and at the same time became Professor of Medical Jurisprudence in the University of Wisconsin, which position he still holds

His interest in this department led him into a full

partment of the University And now, with a thorough knowledge of medicine rendered more complete by three years of direct care of the insane and nine years of general practice, he adds a full knowledge of the law, aided by ten years of active teaching of medical jurisprudence, he has taken his position as a member of the Chicago Bar, and is prepared to give special attention to those numerous and important cases, the adjudication of which involves med ical testimony and the application of the rules of medico-legal investigation. With a thorough practi cal knowledge of both professions, and mental capa city of a high order, he will readily become one of the most useful and successful members of the legal profession

Condition of the Crown Prince -A cablegram of January 15, says "From high medical authority it is learned that there is now no reasonable question of the recovery of the Crown Prince" It seems that Dr Howell, who is in constant attendance upon the Crown Prince at San Remo as the representative of Sir Morell Mackenzie, administered specific remedies with the idea that the affection was specific It is asserted that the Crown Prince's condition be gan to improve almost immediately under this treatment, that the profession is now accepting Dr Howell's diagnosis and treatment as correct, and that it is thought that the Crown Prince will probably be cured

SOCIETY PROCEEDINGS.

PHILADELPHIA COUNTY MEDICAL SOCIETY

Stated Meeting, December 14, 1887

THE PRESIDENT, J SOLIS COHEN, M D, IN THE

Drs J H Musser, William Pepper, and Thos G Morton, read papers on

THE MORBID ANATOMY, DIAGNOSIS, AND TREATMENT OF PERI CÆCAL INFLAMMATION

(See pp 69, 72, and 75)
DR W W KEEN said I remember very well the first autopsy that I made in private practice, twentyone years ago It was on a patient that had died of typhlitis without operative treatment, and the question arose in my mind at that time, whether or not a surgical operation might not have relieved him This was in 1866 In 1867, Willard Parker, of New York, practically systematized the operation Since then,

I should like to say a word or two with reference to the diagnosis I have seen many of these cases, and I have yet to see one in which a distinct tumor was As a rule, tumefaction will be found, but Nor is any fluctuation found in these no tumor In a case which I saw in consultation eight years ago, there had been extensive infiltration in the right iliac fossa, for three weeks, but there was absolutely no tumor and no fluctuation, yet, when the cavity was opened, a pint of pus was found should make up our minds positively, in reference to the surgical treatment of these cases, that we are not to wait for the formation of a distinct tumor or the presence of distinct fluctuation

Another symptom, to which Dr Pepper alluded, I have not found a constant one-and it is surprising that it is not-that is the flexing of the right thigh Not only may this be so, but all the other symptoms may be fading, and yet pus be present In the Medical and Surgical Reporter for the early part of 1886, I reported a case in which I operated on the sixth The symptoms had followed the ingestion of a large quantity of grapes, the temperature reaching The fever and pain had nearly disappeared, and the other symptoms had ameliorated to such an extent that convalesence seemed almost established. Here the diagnosis and treatment hinged upon one measure, which I was rather surprised to hear Dr Morton condemn—that is the use of the aspirator He, however, did not speak of the hypodermic syringe, and I do not know whether or not he includes that in his condemnation In these, and certain other cases, I think the use of the syringe for exploratory purposes is strongly to be commended I grant that it is not always safe to use the smallest of the needles of the aspirator, but to the use of the hypodermic syringe I see no objection whatever If it penetrates any normal structure, it will do no harm, and if it reaches pus, it gives a positive indication for opera-

The time at which pus forms is often extremely I have had two cases in which on the sixth day a large quantity of pus was found Both of these cases made excellent recoveries. In the case seen with Dr Pepper, pus was found as early as the close of the third day

I was glad to hear Dr Pepper refer so strongly to the importance of the rectal examination in these Others have alluded to this, but the urgent importance of it has never before been seriously dwelt upon Dr Musser has shown that the appendix often lies directly on the brim of the pelvis the perforation be near the cæcum, the pus will find its easiest outlet, in not a few cases, toward the cavity of the pelvis It is, therefore, in the majority of cases, within easy reach of the finger, and, in an urgent case, if it cannot be reached by the finger, the introduction of the hand, provided it be a reasonably small one, may be practiced

Both Dr Pepper and Dr Morton have alluded to operation in these cases As is well known the operthe sense of the profession in general has been more ation of Dr Willard Parker consists of an incision and more toward the operative treatment of these not vertical, but parallel, to Poupart's ligament This incision will do very well in the majority of cases, where the lesson is situated in the right iliac fossa Either this or the vertical incision to which Dr Morton alluded, may be selected As we go further and do not find pus, the hypodermic syringe may be used for purposes of further exploration the second class of cases alluded to by Dr Pepper, where there is perforation of the appendix, where there is absence of induration in the right iliac fossa and especially if there is a general peritonitis, I should certainly favor median and not lateral lapar-The latter does not give so simple and bloodless an operation, nor does it give us so easy access to the cavity of the pelvis for exploration, for drainage, and for the surgical manipulations that may In the case I operated on one year be necessary ago, for Dr Pepper, I regret that I did not do a median operation at once, instead of doing the lateral operation The median operation will give us every facility for operation on the viscera in the right iliac fossa, and especially will it give us access to the ap-Unless the indications for lateral operation found in subjects in the dissecting room be strong, I should favor the median incision

I should hesitate to perform puncture of the rectum It would be far better to do a laparotomy, rather than in the dark, not knowing what the lesion was, simply to drain the cavity of the pelvis, as we would do by We want to know what condition rectal puncture exists, we want to find out the exact facts Exploratory operation is not only constantly done, but done I may almost say, without any additional risk to the patient, and it gives us the means of dealing with whatever lesson we may find. If the appendix is perforated, we should ligate it and remove the dis If the cæcum should prove to be the eased portion the seat of perforation, we should close the opening If the perforation, is too with the Lembert suture large for this, it will be necessary to follow the plan suggested by Dr Morton, and make an artificial anus

The suggestion has been DR W HUNT said made that treatment with salines should take the place of the opium treatment in these cases, especi-This is a point on which more foration of the appendix ally after operation experience is needed before we can reach a decision When we take into consideration the fact that several cases of perforation of the appendix have been known to get well under the opium treatment, as proved by post mortems long after, and also the fact that the mortality after the adoption of that treatment years ago, fell to a large extent, we should not hastily between these cases and appendicitis, for the ma-It is no wonder I feel kindly toward it, pority recover for I am told that I am indebted to the opium treatment for my recovery from an analogous lesion—i e, perforation of a typhoid fever ulcer

A word with reference to the operation of ligating symptoms and cutting off the appendix It seems to me that by this method it might possibly be found that only mucous surfaces had been brought into contact and ulcer of the cæcum adhesion not secured It would be better after removing the diseased portion to close the stump by the Lembert suture

gion There can be little or no doubt that the cæcum | charged very freely In the third case the perfora-

-namely, that portion of the large intestine below the orifice of the ileum—is, in 95 per cent of all cases, absolutely free In the one hundred cases analyzed by Treves, there was not one meso cæcum If he had examined five or six hundred cases, he might have found two or three I have the records of many instances in which the cæcum occupied the classical position and was surrounded by peritoneum only on the front and sides, and last week in two cases in succession a well developed meso cæcum was present

It is remarkable how large a number of cases of appendix disease recover. I have carefully gone over my notes, and I find six cases of obliteration of There had been peri cæcal inflammathe appendix tion with subsequent obliteration. I find a record of eleven cases of ulceration, seven in phthisis and four in typhoid fever I have never met with foreign bodies in the appendix, but I have on two occasions had foreign bodies brought to me that had been

The important point in connection with perforative appendicitis, is that in the majority of cases the perforation occurs first with slight inflammation in the neighborhood, perhaps lasting a few weeks or months, without exciting any special symptoms, and the first symptoms to which the attention of the physician is called, and which are rapidly followed by peritonitis, are those of perforation not of the appendix, but of the appendiceal abscess In five instances of peri-cæcal abscess which I have examined, in every one of them there was evidence that the abscess had lasted some time That this is the case is evident from the fact that there are many instances-of which I have had three-in which there was no perforation into the peritoneum, and no peritonitis occurred, yet there The perforation had led were signs of septic fever not to general peritonitis, but to inflammation of the portal branches and diffuse abscess of the liver This is a point which, I think, has not been sufficiently recognized in dealing with these cases of per-

With regard to cæcal disease, we have all seen the cases which have been described by Dr Pepper think that they result, in the majority of instances, from impaction, and that the induration which we feel is in most cases fæcal is, I think, evident Dr Pepper has said, it is important to distinguish We, however, learn from postmortem examinations that a considerable number of cases of perforation of the appendix also get wellcases, too, in which there have been no special

I have had three cases of pen-cæcal abscess from disease of the cæcum Two were cases of round In both the cæcum was the only part involved, the ulcer not being larger than a quarter of a dollar In both instances the perforation was posterior and had excited suppuration in DR WM OSLER said I should like to make one the tissues as high as the kidney In one instance or two remarks bearing upon the anatomy of this re- the abscess had been opened in the loin and had dis-

There was in tion was due to cancerous ulceration this case a large perforation just beyond the orifice of the thum

DR J C Witson said I should like to indicate a division of the subject which I have not thus fur heard mentioned Dr Pepper has alluded to the form of inflammation which is so common, and which A large pro is probably due to frecal impaction portion of these cases recover, and the anatomical condition present must remain, to a large extent, in I am disposed to regard it as a local enteritis involving the crecum, and, perhaps, the appendix I believe the fulness that is present is due in part to fecal impaction, and in part to plastic exudation around the bowel

In the second place, we have those cases in which there is the formation of peri crecal abscess more or less limited in extent, and in course of time this will

require surgical interference

The third group of cases is that in which there is more or less extensive and general peritonitis, and this peritonitis may be due, as Dr Osler has pointed out, either to rupture of a pen excal abscess or to primary rupture of the appendix, with the escape of its contents into the peritoneal cavity I believe that in this form we have to deal with two essenti In the first place, we have ally different processes those cases in which we have rapidly developing peritonitis as the result of the escape of the contents of the appendix, or of a pen crecal abscess, and these cases demand the surgical interference which has been indicated to night I believe that there is another class of these cases in which the peritoneal process results, not in purulent exudation finding its way down into the pelvis, but in plastic exudation from the beginning Here we have the typical symptoms of general peritonitis without the forma-These cases, I am led to believe from tion of pus my own experience, not only terminate in recovery, but do better without than with surgical interference

Dr J S Neff said The early period at which pus formation takes place in these cases has been referred to I would only mention a case which illustrates the rapidity with which general peritonitis may appear I made a post mortem on a child which was struck with a stone, causing rupture of the bowel Death occurred seven or eight hours after the ac cident, not from shock, but from general peritoneal inflammation

DR E MONTGOMERY said I have met with a number of cases of these affections It is certainly difficult to decide what should be our plan of treat-We save cases in which this trouble exists, and goes on to local peritonitis, and under proper under my observation treatment recovery occurs We have other apparently similar cases, which end fatally under the same treatment Three cases have come under my ob One was a man some 20 years of age, who complained of severe pain in the right iliac in guinal region, with considerable tympanites, and with symptoms of peritonitis Leeches, followed by hot poultices, were applied, and morphia adminis symptoms began to subside On the morning of the on the coils of intestine

eighth day he had a severe lancinating pain in the side, with collapse, followed by death a few hours-The post mortem revealed gangrene subsequently This had been circumof the end of the appendix scribed by plastic exudation. At the time that the Inncinating pain had occurred, an artery had been opened, and hæmorrhage had occurred, which broke through the exudation, and a pint of blood was found in the peritoneal cavity

The second case I saw in consultation thirty six hours before the death of the patient, who was a man 50 years of age There were marked signs of peritonitis, with great distension of the abdomen, greatly interfering with the breathing. It was not deemed advisable to operate. As there were con-It was not stant efforts at vomiting, I introduced the stomach This was followed by the regurgitation of half of black material This gave considerable tube a pint of black material relief from the distress, and the abdomen was much On examination, perforation of the reduced in size appendix was found

The third case was one of those reported to-night,

in which operation was performed

I have now under treatment a patient 17 years of age, who, during the last six months, has had eight or ten attacks of tenderness in the right inguinal Although he has been in bed for the past three weeks on a restricted diet, he is now suffering from another recurrence of the symptoms question whether or not in this case it would not be better to do a laparotomy for the purpose of remov-

ing the appendix when the inflammation subsides

OR E T BRUEN said The treatment of peritoneal inflammation by salines is receiving considerable attention at the present time From what has been said to night, it would seem clear that in the treatment of typhlitis the important measures are those which secure rest, including the use of opium and the avoidance of all violence, and when the inflammation has subsided, the removal of the impaction by such mild laxatives as calomel, and, besidesthis, the treatment of the catarrhal condition by appropriate measures

In those cases where there has been rupture of the appendix, with the occurrence of peritonitis, it seems improbable that the administration of repeated doses of salines would be likely to do much good that the expression of medical opinion as to the measures to be employed under these circumstances

should be clear

Dr J H Packard said I would briefly refer to one or two of a number of cases illustrating the sub ject of this evening's discussion, which have fallen

The first occurred in the practice of the late Dr I. F Meigs, in 1860, and is reported in detail in the American Journal of the American Sciences for 1861. At the autopsy, made by me, an intestinal concretion had been lodged in the appendix vermiformis, and had caused a circular band of ulceration, at one point of which perforation had taken place was a collection of pus about the appendix, and unitered hypodermically By the seventh day the acute versal suppurative peritonitis, with flakes of lymph

Another case, which occurred in 1879, in my wards at the Episcopal Hospital, may illustrate the conclusion I do not deny that typhlitis occurs, I difficulty of diagnosis sometimes met with in these cases before the recent advances in the surgery of this region had been made of age, who had worked on a farm, was admitted on the colon may account of lameness, ascribed by him to ulceration of his right heel by a heavy and ill fitting shoe There was a swelling in the upper part of the thigh, which was regarded as a sympathetic bubo. At the lower part of the abdomen there was also some fulness and tenderness, which should have attracted more attention than it did, and which ought to have suggested the true nature of the case Several openings occurred below Poupart's ligament, the discharge was very abundant and soon became facal in A little later, fluctuation was noted above the ligament Parker's operation was performed, and a small angular piece of beef-bone was found that had worked its way out of the bowel more radical procedure, such as would now be resorted to, might have saved the life of this patient, who died exhausted

As to the employment of the hypodermic syringe for diagnostic purposes, it seems to me that if fluctuation is clear enough to warrant this, its aid is scarcely needed there are on record several cases in which fatal fæcal extravasation has followed the puncture by this for the inebriate means of a herniated bowel

With regard to the choice between the lateral and median incisions, I think that where the trouble is clearly in the right side of the abdomen, this is the proper surgical entrance If there is no necessity for opening the peritoneum, it is certainly sufficient And if there is such necessity, a lateral incision eight inches in length, such as is recommended for other purposes by several surgical writers, will give abundant access

I would suggest that in women a vaginal examination may enable us to explore the iliac lesions as well as the ovaries and tubes

DR W W KEEN said I do not wish to be understood as advocating indiscriminate laparotomy in I attempted to cases of peri-cæcal inflammation draw a distinction between those cases in which the pus is evidently in the iliac fossa, where the lateral incision is the proper one, and those cases in which examination by the rectum, and the vagina in women, shows that the pus has not been limited to the iliac fossa, but is in the cavity of the pelvis, where a median laparotomy is the better operation

DR C WIRGMAN said I rise merely to emphasize one symptom mentioned by Dr Pepper, and that is, the extension of the pain into the genitals I had one case in which the pain radiated down the inner and outer aspects of the right thigh case, which terminated fatally, the autopsy showed a concretion, but no foreign body I had cautioned the utmost quiet The patient was, however, a restless child, and on the eighth day flung himself from one side of the bed to the other This was at once followed by excruciating pain, for which it was necessary to administer ether

DR Musslr said I have but a word to say in wished simply to emphasize the relative importance of appendicitis as compared with typhlitis A boy, about 17 years litts may occur just as inflammation in other parts of

I am glad that Dr Osler referred to the relations of the peri cacal abscess to the peritoneum. In my hurried remarks, I neglected to mention it It must be borne in mind that the danger of a peri cæcal abscess depends entirely upon its relation to the peri-When intimately connected with it, or rupturing into the peritoneal cavity, the danger becomes imminent

INTERNATIONAL CONGRESS ON INEBRIETY.

Held in London, England, July 5 and 6, 1887

The Congress opened on Tuesday afternoon, July 5, with a reception to Dr T D Crothers, of Hartford, Conn, and other Americans who were present A large number of medical men were present, and after a service of tea and coffee the President, DR NORMAN KERR, took the chair In a welcome ad-It must not be forgotten that dress he said that to America we were indebted for the modern movement on behalf of special legislation From the illustrious Dr Benjamin Rush, one hundred years ago, to the present day, American physicians had laid the foundation of a great work of permanent reformation and cure sides the incalculable services of the United States in the rise and progress of the general temperance reform, and in the practical application of enlightened and effective prohibitory legislation, the recognition of the diseased state of many drunkards, and the consequent necessity for remedial treatment as in the case of other diseased conditions, had been first fully and persistently pressed in the United States In that great and friendly community across the Atlantic special institutions had first been established for the cure of the disease of inebriety The results had been excellent, and such as filled all their hearts with joy and thankfulness In England we were far behind the United States in this practical and useful There, the mebriate, willing to surrender his liberty, was deterred by no forbidding appearance before two justices from applying for admission to a The applicant could be re-Home for Inebriates ceived at once, and detained for the period for which he contracted with the managers by simply signing an agreement There, too, the long-suffering and harassed friends of the inebriate could, on proving his inebriety, have him compulsorily, if necessary, sent to a retreat for a time for care and treatment Dr Kerr had seen in America the most satisfactory issue from such commitments, Provision, too, was made for the poor Here we had no legislative pity on the destitute drunkard or on his sorely tried wife But the future was not without hope A better day was dawning, an auseven in Britain picious prospect for which we were mainly indebted to such pioneers as Dr Parrish, Dr T L Wright,

and Dr Crothers, who honored the Society with stant, social or solitary their presence that day

He concluded by offering a resolution of wel come, which was responded to by DR CROTHERS, in a review of

THE STUDY OF INFBRIFTY AND INFBRIATI HOSPITALS IN AMI RICA

He described the origin of the study of inebriety from the physical point of view, the hospitals for inebrintes to day, the inmates of hospitals and the cures, legal control of inebriates, the organization of State and private asylums for inebriates, the literature of mebriety and its peculiar character in America, and some general conclusions from this

DR JOSEPH PARRISH, of Burlington, N J, ad dressed the Congress on the inquiry

IS THERE A CHIMACTERIC PERIOD IN INFBRIFTY?

The author said that the climacteric cause of puberty and the menopause were well known In many inebriates there were periodicities, often referred to the gastric region, dependent on the condition of that part of the brain which presides over digestion Might not this periodic state exhaust itself at the time of life when vital force began to wane? From 500 cases, he had come to these conclusions that the majority were at the onset of the disease the subjects either of disease or accident, and had a tendency to peri odical outbreaks, others had a deficient resisting At what time did the morbid state antecedent to mebriety tend to exhaust itself? When the vital energy failed in intensity with the approach of age and altered conditions—between 45 and 50 years of age, sometimes sooner Besides direct alcoholic heredity, the union of incompatible elements in parents engendered in the offspring an unstable temper-

DR T L WRIGHT, of Bellefontaine, Ohio, read a paper on

THE EFFECTS OF ALCOHOL ON THE BODY AND MIND

He described at some length the two great classes of moral degeneracy from alcohol that arising in consequence of hyperplasia of the interstitial tissue in the brain, and that induced by long continued an-The symptoms in the progenitor, while presenting the characteristics of debased morality, may be attended also by some indications of insanity, while in the descendant the heredity is manifested by moral degeneracy only, and a consequent crimi nal proclivity, without symptoms of intellectual in

The opening Address by the President, DR Nor-MAN KERR, was delivered at Westminster Town Hall, on Wednesday morning His topic was

INEBRIETY, AND ITS MEDICAL, MORAL AND LEGISLA TIVE TREATMENT

He said that inebriety was a disease of the nervous system allied to insanity, and characterized by an almost overpowering impulse to, or craving for, the oblivion of narcotism—a true intoxication mania, or, as he preferred to call it, narcomania The disease

The form might be determined by complicating disease or correspond to the In alcohol mania, as well as apiritumebriant used ous there was wine and beer inebriety, though many who declared that ardent spirits were poisonous taught that wine and beer were innocuous, an extraordinary and perilous error, for nearly 10 per cent of the cases treated at the Dalrymple Home had been beer or wine narcomania Causes were predisposing and exciting An exciting cause provoked the mebriate paroxysm in a constitution predisposed to inebriety, while the same excitant had no effect in stimulating a person who had not this predisposition to excessive narcotic indulgence Among the predisposing causes the chief was hereditary, which was at times crossed, r e, the male children only of an inebriate mother labored under it, or the female children of an inebriate father Of exciting causes. some kind of nerve shock was the chief Inebriety had recently spread considerably among children, little ones of even 3 and 4 years, on recovering consciousness after insensibility from an accident asking imperatively for gin and other liquors The importance of a knowledge of the causation of inebriety lay in the basis this offered for sound treatment Quacks and philanthropists had sought for and had proclaimed that they found magic potions to charm away inebriety All these nostrums had been found Others had put forward vegetarianism as a cure, but its pretensions were also unfounded There was no royal road to temperance There were certain conditions of sound treatment The first was the unconditional withdrawal of the poison, which must be immediate with alcohol, chloral, ether, and chloroform, but should generally be gradual with The second and third condiopium and morphia tions were the removal, if possible, of the exciting cause, and the reparation of the physical damage wrought by inebriety, the remedying of the pre inebriate morbid condition, and the strengthening of the moral control The results of the treatment at the Dalrymple Home had been most satisfactory, more than one-half of the cases having been restored to their friends and to society The experience of other genuine homes had been somewhat similar third of the male cases might fairly be considered cured, the result not being quite so favorable in the case of females After a reference to the unfavorable legislation which existed in other countries with regard to this matter, the President concluded by declaring that they might hopefully look forward to a future time, whether they lived to see it or not, when the truth would be acknowledged by the Church and by the State, and full justice would be done to the physical infirmities of the weakest and poorest of ınebriates

DR CAMERON, MP, took the chair and addressed the Congress on

THE FORMER TREATMENT OF INEBRIETY,

saying that as lunatics used to be treated like wild beasts, so till recently habitual drunkards were regarded but as a nuisance to be got rid of by drinking assumed varied forms It might be periodic or con themselves to death. Only of recent years had it been seen that inebriety was often as much a disease as lead poisoning or the gout, and as susceptible of | Society of New York, read a paper on control and cure

DR DE COLLEVILLE, of Paris, France, read a paper on the

CONTINENTAL LEGISLATION FOR INEBRIATES,

saying that in Austria, Belgium, France, Germany, Greece, Holland, Italy and Switzerland, drunkenness was not in itself an offense, but public and disorderly drunkenness was punished by short imprisonment and fines In some countries the fines were increased by the number of convictions In some places bankrupts and paupers as well as interdicted persons, for prodigality, were not allowed to enter a drink establishment for thirteen months or more, as at Lucerne and in Galicia, except for food in necessity Diunkenness was spreading beyond the northern Continental regions, and Italy and Greece were becoming infected He concluded with a hope that the physical state of mebriety should be recog-Then all would have more common ground to begin on

LORD DENMAN, of the House of Lords, addressed the Congress and said that he had taken a great deal of interest in temperance, but not total abstinence When the rights of minorities came to the fore those who had advocated these principles year after year would have some respect shown to their efforts was satisfied that the disease of mebriety must be recognized, and physicians must teach us the real He would have the laws enforced strinremedies gently, and hoped a new era of the subject was close at hand

The REV J W HORSLEY, late Chaplain of Her Majesty's Prison, Clerkenwell, read an interesting paper detailing his observations on

INEBRIETY AMONG PRISONERS

He said that as there had been 20,000 admissions annually to Clerkenwell Prison, inebriety was constantly before him In ordinary prisons at least half the inmates would be in prison directly through drink, and another fourth indirectly In Clerkenwell many who were on remand or awaiting trial had not had time to get sober when he saw them, and were enter ing upon a recovery from delirium tremens were plainly dipsomaniacs, and then suffering from the circumstantial or periodic drink crave His estimate of 75 per cent of crime directly and indirectly due to mebriety was confirmed or exceeded by other gaol chaplains or governors, by magistrates, and police superintendents At one court he had found in one week 124 charges for drunkenness out of 154 Prison officials had clear proof of the popular fallacy that drunkards "must be let down by degrees" Thousands of cases every year proved that even in old standing cases sudden abstinence was quite safe A clever doctor whom he ministered to for three months, before hanging, said the imprisonment was a blessing, for he could not or would not cure him self of the morphia habit, and now through prison All prison doctors, when asked he was a free man what evil they had seen arise from the sudden disuse of alcohol, replied "none"

MR CLARK BELL, President of the Medico Legal

THE RELATION OF INTEMPERANCE TO INSANITY

In the course of his remarks he said that they might safely assume that science recognized throughout the world the abuse of alcohol, not only as the greatest and most direful cause of insanity known to the race, but that it recognized alcoholism in its various forms as a distinct type of insanity. The mission of the English Society for the Study of Inebriety was of the highest importance. If by their labors they could benefit the future humanity by a better understanding of the causes which had led, and were tending to the degeneracy of mankind, if with such knowledge, they could arrest or lessen the ills of inebriety, they would have accomplished a great good.

Surgeon-Major R Pringle, of the Bengal Army, in his paper on

HOMICIDAL AND SUICIDAL INEBRIETY,

observed that careful study of the disease in all its diseased conditions was essential to the devising of thorough and intelligent legislation now that heredity and environment were bearing their harvest Suicide and homicide, the result of alcoholic stimulation, were often but manifestations of a diseased cerebral condition which might be dormant through life, or, if lighted up by alcoholic stimulation, might exhibit themselves in murder or self destruction, or the angry blow of the partially inebriate. In confirming one of the sentences of death in India, Sir Lepel Griffin lamented the absence of a medical history of the accused, attaching no importance to alleged spiritual This is the true ground These cases delusions were cases of physical disease, and ought to be treated as such It is high time that some legal protection should be granted to the public in these diseased and easily provoked cases of inebriate, homicidal, and suicidal mania. This victim paid for his crime with his life, but the true cause remained unchecked and unnoticed

THE PRESIDENT read a paper on

COLONIAL LEGISLATION FOR HABITUAL DRUNKARDS.

He briefly reviewed the provisions existing in the colonies for inebriates It was only fair to say, he remarked, that there was as yet very limited accommodations in special homes for inebriates in the colonies, a practical haven of refuge and a means of restoration to health for the narcomaniac, which was much more abundant here We had a number of such homes for the well-to do, though none licensed It was high time that under our Act for the poor the Legislature of the United Kingdom should take a lesson from her vigorous colonial offspring by caring for the destitute as well as for the rich diseased drunkard, by offering an opportunity for the treatment of every mebriate willing to give up his freedom for a time, and by investing the proper authorities with power to compulsorily seclude the victim to narcotics for the threefold purpose of effecting his cure, of saving his wife and family from a life of inexpressible sadness, and of protecting the community from the violence and riot of a morbid maniac

AFTERNOON SESSION

DR B WARD RICHARDSON explained the

ACTION OF THE HEART AND CIRCUIATION IN THE INFBRIATE CLASSIS,

by sphygmographic tracings, which demonstrated that there was a deviation from health in every stage of inebricty. In the inebriate the heart was never The pulse read allowed to declare itself naturally produced the disease they called inebricty, the centre of which was in the heart and circulation In treat ment time and total abstinence were essential only must the alcohol be thrown out of the system, but it must be kept out till the perverted body came back to its natural state. A clear definition of the physical nature of the evil was essential

DR PETITHAN, of Liège, read a paper on

LEGISLATION FOR INEBRIETY

Alcoholism in Belgium has augmented with frightful rapidity, and calls for immediate action England and the Netherlands, these two classic countries of progress and liberty, and France had adopted repres-Belgium ought not to lag behind sive measures At present the alcoholized man, unless in extreme insanity or violence, is not dealt with He is not responsible, being under the power of alcohol, and yet has the control of his family, the administration of his affairs, and he is a juryman He cannot be interdicted unless he is mad, yet he has lost his will, is no longer free, and no more responsible newly discovered disease-inebriety-ought to be recognized by the law The mebriate should be hable to interdiction, not only by his family, but by a public officer This can be done now only in the event of fury or imbecility, but it can be done in a The alcoholized man, when his dislucid interval eased state is medically and legally recognized, ought to be interdicted. When he is interdicted there ought to be power to shut him up in a special home, where he should be treated, and obliged to work ac cording to his strength

Dr Axel Dickson, of Sweden, read a paper on

ASYLUMS FOR INEBRIATES IN SWEDEN

In Sweden there are two such asylums One is at Bic under medical superintendence, where the charges can be afforded by only the economically The other is for working people, at ındependent Tornas, the charges varying from £11 to £22 per The patients have to work on the farm, in the dairy stables, and elsewhere on the premises One year's residence is required No intoxicants are The farm has been open for only six allowed Already there have been seven patients, months some of whom are hopeful cases

Professor Binz, of Bonn, read a paper on

GERMAN LAW ON INEBRIETY

He stated that, by the German Penal Code, whoa condition in which, through the interposition of the of neuritis court, foreign help must be resorted to for his sup- dyspepsia, atony and degeneration of the mucous

port or the support of those whom he is in duty bound to muntain, is punished with imprisonment On a repetition of the offense, imprisonment can be arranged in a workhouse for a longer time closing hours of drink places are usually 10 o'clock PM in the country and II PM in towns

DR MOLITER read a paper on

INEBRIFTY IN BEIGIUM

He traced the history of the movement for legislaings showed continuous irregularity of the circulation for inebriates in Belgium, particularizing the tion. When the changes became permanent they labors of Drs. Petethan, Barella, Carpentier, Jansen, and others Dr Carpentier had found 90 per cent of his post mortems on males and 10 per cent of his post mortems on females at the Brussels Hospital show signs of incurable organic alcoholic disease The ages at which these mebrates had begun to drink ranged from 55 years to 8 years In Belgium they were agitating, r, for interdiction of the inebriate, 2, for seclusion of the inebriate in a special asylum for treatment of his disease Dr Moeller was in favor of the Government opening such establishments, rather than their institution by private indi-Inebriety was a true disease, and required not only medical treatment, but also legislative care and control

DR LEWIS D MASON, of New York, read a paper

THE RELATION OF DISEASE TO ALCOHOLIC INCBRIETY

Disease might act as the predisposing, exciting, or complicating and protracting cause of alcoholic ine-The disease might be inherited or acquired Of several hundred cases under his observation, over one third had either insane or inebriate parents, the latter being in excess In addition, all neurotic tendencies were predisposing, all hereditary diseases accompanied by degenerative changes, congenital syphilis, tuberculosis, epilepsy, or other neuroses These were born with a defective nervous system, and had a low resisting power to disease which tended to still further degenerate their nervous system Such were congenital neurotics, with a natural tendency to stimulating and narcotic drugs, readily becoming insane, or mebriates, or opium habitues, on the presentation of an exciting cause

Having pointed out the relation of disease or injury as predisposing or exciting to inebriety, let us now see how alcohol excites disease Alcohol is no respecter of tissue, though it is more deadly in effect on some structures than on others It is especially injurious to the cerebro spinal centres It acts on the cerebral vessels, as seen in vaso motor paralysis, in fatty degeneration of the capillaries, and leakage of the watery constituents of the blood, constituting serious apoplexy, a not uncommon fatal termination Epilepsy is a neurosis due to alcohol in inebriety About one in fourteen, in several hundred cases, were due to alcohol as the exciting cause there are various forms of acute and chronic alcohol mania, mania a potu, delirium tremens, chronic alcohol mania, and chronic alcoholism There are also ever surrenders himself to drinking so as to fall into general paresis, hemiplegia, and the multiple forms Alcohol causes gastric derangement,

coat and glandular structure of the stomach, a condition often secondary to hepatic derangement Phthisis is also produced by alcohol

CHEVALIER MAX PROSKOWETZ DE PROSKOW MARS TORFF read a paper on

INEBRIETY IN AUSTRIA

The author stated that in Austria inebriety was increasing everywhere on a dangerous scale consumption of alcohol (taken as at 100 per cent) was 67 litres a head in a population of 39,000,000, but in some districts 15 5 litres was the average (4 5 litres go to a gallon) In all Austro Hungary there was an increase of nearly 4,000,000 florins in the cost for alcohol in 1884-85 over 1883-84 there were 195,665 different places (stations, ginshops, and subordinate retails) where liquors were Dr Julius Wolff had shown that the proportion of liquor stations to the inhabitants varied from 1 for every 173 to 1 for 1,181 In districts where the most spirits were used there were fewer fit re Of 2,742 murders and homicides in Austria in .876-80, 978 were by drunken persons, in Bohemia, 103 out of 435, and in Moravia, 74 out of 242 Austrian inebriety was increasing in country and in 33 41 per cent of the insane in the Vienna Asylum were from alcoholism, or seven times more than ten years ago Alcoholism and inebriety had spread more rapidly since spirits had been made from molasses, potatoes, sweet turnip, Indian corn, etc Inebriety was also causing graver diseases The Aus trian Inebriety Society has asked the Parliament to establish homes for inebriates By the Austrian Penal Code (1852) accidental intoxication exempted from criminal responsibility, but it was an aggrava tion if the person knew from experience that he was very emotional when intoxicated Inveterate drunkenness was a misdemeanor in craftsmen working on roofs or with materials easily inflammable Austrian workmen generally take spirits at breakfast ducers of spirits into factories were severely pun In the Tyrol, C Payer says that two-thirds of the people are mebriates, including women the request of the Inebriety Society, the common Imperial Minister of War had requested command ers of troops and garrisons to ensure the sale by sutlers of tea and coffee at low prices The author had asked Parliament to teach the intolicating nature of alcohol in schools The Austrian Inebriety Soci ety was founded on January 17, 1884, and had done good work by collecting statistics, publishing pamphlets and proceedings, chemically examining spirits, and promoting tea cars and coffee rooms

DR EDWARD C MANN, of Brooklyn, N Y, read a paper on

THE PATHOLOGY OF INEBRIETY

He said Let the profession regard inebriety in its true light as a physical disease amenable to treat ment, and aim to instruct the communities in which they practice medicine as to the physiological action of alcohol on the functions of the human body, and the science of preventive or State medicine will owe an incalculable debt of gratitude to them for disease and death prevented, and much domestic misery averted

Inebriety is a disease caused by heredity by defective nutrition, by emotional shock, by physiological crisis, by visceral diseases, and by structural changes in the brain We may have anæmia of the brain in inebriety, with the blood in the capillaries deficient in quantity and defective in quality, we may have secondary atrophy of the brain, we may have hyperæmia of the brain, with increase of quantity of blood in the capillaries, with symptoms of either excitement or depression. We may have cedema of the brain, with infiltration of it and of the pia mater with serum, especially when the case of inebriety is associated with Bright's disease bral substance itself is not infiltrated In these cases we see a slow diminution of mental power and motor We may have softening of the brain from vascular obstruction, depending on vascular degeneration, causing thrombosis, or valvular disease of The former in mebri the heart causing embolism ates is the usual form, and it is associated with chronic alcoholism and Bright's disease generally the premonitory symptoms of mental dete rioration numbness, pains in the limbs and pains in the head, in the brain softening of inebriates sequently we see mental dulness, defective perception, drowsiness, loss of memory, slight delirium, emotional attacks, headache, articulation and handwriting bad, the delicate motor acts badly performed, and less of physical power Dementia may end the

Finally I would speak of the great importance of the recognition of the mental condition that in inebriates is the precursor of actual insanity I have had the opportunity of studying carefully several such cases, many of whom I have been so fortunate as to restore to home and society The clinical manifestations which I have observed in these cases have been depression, unwonted excitability, disregard of the minor proprieties of life, a change coming over the warmest affections, quick changes and rapid transitions in the current of the feelings, sleeplessness and a complete change of character and habit, the person meanwhile entertaining no delusions, but occasionally losing his self control, the general acts and manner at such times being strongly expressive of There are intervals of perfect the inward emotion calmness and self control, during which the person clearly discerns his true relation to others, and even, perhaps, recognizes the influence which the incipient disease exercises over his feelings and actions those cases where insanity appears, we see the utter downfall of the intellect manifested by the fury of mania, or the moodiness, suspicion, depression, and impulse towards self destruction of melancholia All these are the successive links forged in the chain of the insanity of the inebriate, the study of which is full of interest, not alone to the student of mental pathology, but to everyone who desires to lead the wandering mind out of the darkness and mazes of disease back into the light of reason

DR ALFRED CARPENTER read a paper on

THE VICE AND DISEASE OF THE INEBRIATE

Inebriety in its confirmed state is a disease

Ву

becoming omomania or delirium tremens it is a de parture from health. The diseased state of brain cell Inebriety spreads by the contagion of is manifest irritation, like St. Vitus's dance, the dancing mania, and other nervous affections It is not an entity which can be east off like a gall stone Yet it must be something superadded to the human frame, which makes people afflicted with it differ from others who are in good health and have never been inebriated What is that something? Where is its seat? Ine briety has its origin in vice, and its sent is the brain

chemical change in the agent producing it drunken man loses self respect while under the influence of alcohol and its allies. Amyl compounds produce these changes more quickly than ethylic The man Conscience loses its power surrenders his will, or becomes the victim of delu sions which enslave him as long as the influence lasts As the sense of sight has its seat in some nerve cells, so faculties and mental powers are seated in other nerve cells If one set can be irretrievably damaged, so can the other As the sight cells are destroyed, producing blindness, so the seat of self respect, con science, courage, and other virtues becomes changed —the good is made vicious Though apparently there is no change, there is no longer a response, and as regards that particular faculty the inebriate is as a White atrophy of the optic nerve does not occur till late in life, so few children are born with this inherited tendency So formerly intemper ance was uncommon in early years, and alcoholic heredity was unusual Of recent times, however, there has been increased facilities for the young to obtain liquor unknown to their parents, and alcoholic heredity is therefore more common Breeders of cattle are more careful than human beings about the observance of healthful habits of life in parents have observed in some children born after parental addiction to drink a tendency to drunkenness easily provoked by small doses of an intoxicant dren of the same parentage, before the intemperate habit had begun, I have seen no such tendency

A dinner in connection with the Congress took place in the large Hall of the Westminster Town Hall in the evening, when some 280 ladies and gentlemen were assembled

The Congress closed on July 7, in an excursion to the Dalrymple Home, the largest mebriate asylum in England

CHICAGO GYNÆCOLOGICAL SOCIETY

Regular Meeting, Friday, September 24, 1887 THE PRESIDENT, CHARLES WARRINGTON EARLE, M D, IN THE CHAIR

(Concluded from page 59)

DR J C, Hoag gave the following history of case of PLACENTA PREVIA

case of placenta previa which I saw a few days ago in consultation I was called early in the morning, and on going to the patient found her in labor, the labor being a little premature by perhaps three or She had suffered repeatedly from severe four weeks loss of blood during the last three months time I saw her, the os was sufficiently dilated to admit one finger only, the periphery of the placenta could be felt throughout perhaps a fourth of its ex-She was having no particular hæmorrhage at that time, but had been flowing all night Every manifestation of action is attended by a deavored, a few hours later, to introduce a Barnes' The dilator, but fuled because the cervix was very unfavorably situated, being so far back in the sacrum that it was impossible to introduce even a small dila-I introduced a colpeurynter and left it for three or four hours, at which time the os was found to be pretty well dilated, and the remainder of the management was left to the other physician at his request, as he had not previously attended one of these cases By external examination, palpation and auscultation, I had no difficulty in finding the exact locality of the feet, the other physician introduced his hand, and with little effort was able to pass it into the uterus, he then seized the foot through the membranes, but had great difficulty in holding it was a good deal of difficulty in rupturing the mem-I tried it before the introduction of the colpeurynter, but gave it up and advised the physician to rupture the membranes wherever he could do He soon succeeded in doing this, and the case offered no difficulties afterwards There was very little loss of blood The patient was afterwards treated with two antiseptic douches per day, and has done very well since The child is living

Dr Merriman How much hemorrhage was there after you introduced the colpeurynter?

Dr Hoag Very little

DR EARLE Did she get an intrauterine douche immediately after the operation?

Dr Hoag Yes, immediately, before the colpeurynter was put in and after the extraction of the child, and she has had no temperature above 90°

Annual Meeting, Friday, October 22, 1887 THE PRESIDENT IN THE CHAIR

The following officers were elected for the year, 1887-1888, after the reports of the secretary, treasurer, and editor were accepted

President —Henry T Byford First Vice President - Philip Adolphus Second Vice President - Addison H Foster Secretary and Treasurer -Edward Warren Sawyer Editor - W W Jaggard THE PRESIDENT then delivered his

ANNUAL ADDRESS

The secretary and editor will narrate the extraordinary work accomplished by the Society, will tell of its fame in foreign lands and its value at home, and so nothing is left for me to do except to plunge I might refer to a case which I attended recently at once into the subject that I believe is of more imin which there was one point of interest, it was a portance, not to you as representative men in the

advance of obstetric practice, but through you, as teachers and members of a special society to the great mass of practitioners whom your words influence, than any other I mean the influence of the development of the germ theory on the practice of obstetrics The words of experience which comes from Fellows of this Society regarding laparotomies, Alexander's operations, and total extirpation of the uterus are most valuable to a few-possibly one in one hundred or one in one thousand, for not more than that number should do these operations, although more than that number may attempt them But the inculcation of the duty to practice aseptic obstetrics applies to nearly every practitioner, for out of the great multitude of doctors there are found very few who do not practice this art and science Not many months since, Mr Lawson Tait paid a visit to Professor Tarnier at La Maternité professor called the attention of Mr Tait to a linear chart on the wall of his room, showing the total death rate of women confined in that hospital from 1792 to 1886 This record is divided into three periods the first that of inaction, in which the mor tality was from 9 3 to 20 per cent, the second, the battle of hygiene against infection and contagion with a mortality of 23, and third, the victory of an- In another, with a mortality of 116 mothers, 13, or a tiseptics, with a mortality of less than 1 per cent, trifle over 10 per cent had died and in the Tarnier Pavilion, a little maternity constructed under his immediate direction, since June, aseptic obstetrics will save more lives than can be 1880, with 785 deliveries, not a death has taken place

In 1870 to 1872, the influence of microbes in the etiology of disease began to be noticed, and in 1878, Pasteur began his investigation, from which we commence data to prove what is now known as demonstrated in regard to germs Previous to this, however (1857), Tarmer demonstrated the contagiousness of puerperal fever by inoculation Mayerhofer (1870) viewed the micro organism in the putrid discharges of childbed women, and Orth, Klebs, Hiller, Koch, Rokitansky, and others were conducting their About 1880, Pasteur believes he saw the microbe of puerperal fever Condensed for

practical use, it has been demonstrated

crowded with organized microscopic beings They live and multiply at the expense of organized hours before an expected confinement the room may 3 Their penetration into tissues produces 4 The skin, respiratory and digestive passages furnish the channels into the body healthy tissue has never produced a microbe Any abrasion of tissue against which these microbes come makes it possible for them to enter the system 7 Unless germs are brought from without there can be no infection 8 Many things in regard to the virulence, nature, attenuation, age, and development are yet under consideration

The appliance of these principles, with many others undoubtedly, has given the victory to anti-septics in hospitals With a mortality of only onehalf per cent, but little more can be expected what can we say regarding the mortality in private practice? Is it necessary, is it expedient, is it pos- main, it is because the people are ignorant of what sible to apply antiseptic measures? I have already these surroundings produce, but the average obremarked that the returns from private practice are stetrician is not free from serious responsibility that

not in, they never will be, they never can be, and until it is understood that what is called by so many milk-leg is puerperal infection, that in many cases mastitis is puerperal infection, and that chills and perspiration and abdominal tenderness after confinement is not necessarily simply malaria or a mixture of typhoid and malaria, but in the main is puerperal infection—I say until these things are better understood, and the great mass of practitioners are willing to call things by their correct names, a truthful percentage of deaths from puerperal cases in private practice can never be known From time to time indirect and unexpected testimony comes to us in regard to mortality from puerperal disease in private A student of mine, now practising in Michigan, narrates to me that a neighboring practitioner has lost 12 in six months It has become a standard quotation in obstetric literature that many years ago a celebrated obstetrician with a purulent catarrh in four years and nine months had 95 cases of puerperal fever with 18 deaths

In one insurance company whose papers I have examined, 187 mothers of those applying for insurance had died, and 32 of these, more than 17 per cent, succumbed to some form of childbed disease

Reiterating again that the practice of clean or saved in any other department of medicine or surgery, what are some of the means which we can use in its practice in private families—in other words, how far can we apply what has been demonstrated as reducing the mortality in hospitals to our work in families? It is not necessary to speak of isolation, apartments in private dwellings are hardly ever so crowded with sick as to insist upon this We should, however, see to it that the air is pure, and if infectious diseases have taken place, take measures to destroy their germs With the possibility of saving a human life, or at least averting from two to six weeks of prostrating illness with its anxieties, expense, and uncertain prognosis, it is not asking too much if I That the air and the water of the earth is there is the least suspicion of a poisonous atmosphere that the room shall be disinfected be fumigated with sulphur, or the walls dampened with carbolized or mercurial water. In this way a great amount of accumulated dust is either rendered aseptic or thrown down upon the floor or carpet, which may also be disinfected It will, of course, be nearly impossible to dispense with curtains and carpets in private sick rooms, and in ordinary cases The furniture may be it will not be necessary washed, however, with carbolized water, and, above all, the bed and its bedding can be clean It may be suggested that such instructions are superfluous, and that the lying in bed is always aseptic In general practice this is not so, and many a practitioner But has confined a woman on a mattress previously used by a diphtheric or erysipelatous patient. In the

renders this practice so dangerous, not to say some-proper and efficient antiseptic precautions it will not times deadly

With the room and its appointments made pure, it will be well to see that the patient has some defi nite instructions as to her preparations As soon as it is known that her confinement is about to take place, I am in the habit of requiring her to take a warm bath, at the conclusion of which the lower part of her person is to be washed with carbolized It is also requested that one or two carbol ized vaginal injections shall be taken during the first

stage of her labor

I have no hesitation in saying that in my judgment, the occupant of many a lying in chamber has yielded up her life, and the earthly career of many a babe commenced without the love and tender care of a mother, through the filth and ignorance of the so called practical but untrained nurse The position of nurse is too easily acquired—a woman whose hus band has died, a woman whose husband is unfortun ate in business, a woman who desires a little ready money -without a particle of training-without the faintest conception of what infection means, is frequently and eagerly employed to fill these responsible positions. And these midwives caring for a child with purulent ophthalmia in one house, confining a woman in the next, and washing the external genitalia of a septic patient in the third, no wonder lying in patients die These uneducated people-nurses and midwives-go from place to place with their little hand bags containing dirty aprons, septic catheters and syringes, and with em anations from their persons of kerosene and valerian enter the lying in chamber to scatter germs of infec tion Some years ago, I was at a great loss to under stand the cause of a mild infection in the person of a wealthy Jewess confined in her beautiful home and surrounded with luxury, and where I had taken the utmost antiseptic precautions, the incautious remark of the nurse that the patient previously attended by her had a milk leg explained it fully If everybody is to nurse, we must insist that they subscribe to cer tain rules of cleanliness, and have some knowledge of the etiology of puerperal disease

Precautions to be Observed by the Doctor -To believe that he may carry the poison from one patient to another is his first great duty This acknowledged, he will take some kind of care, varying from a brief exposure in fresh air to complete antiseptic precau One of the most able and convincing argu ments ever set forth, and which accomplished a vast amount of good and saved many a mother's life, was the essay of our own countryman, Dr Oliver Wen dell Holmes As early as 1843, while the intellect of Semmelweiss on another continent was revolving the same subject, Dr Holmes established and set forth the following 1 Obstretricians should not take active part in autopsies 2 If so engaged he should before attending a case, and 3 The inexpediency of obstretricians attending cases of erysipelas and certain other diseases the use of disinfectants, the contagious principle can opening after the birth of the child

be necessary for us to remain in quarantine the only safety in addition to knowing the virulency of germs, is to be willing to disinfect one's person and know how to do it. If we appreciate a danger we will take care to avoid it. The time has not come when many of us can refuse to do general practice, to attend cases of scarlet fever and diphtherra, and open abscessess, etc But if we realize the fact that we have made ourselves partly or wholly septic, and desire and know how to make ourselves aseptic, we are undoubtedly in a safe position as regards our patients It is the carelessness and inactivity of which I complain It is futile to claim that absolute cleanliness is practiced in anywhere near a majority of cases, or that any attempt is made toward antisepsis It is done by a few but the great mass must still be brought up to it In 1875, Dr Foote, in a paper on puerperal peritonitis, read before the Illinois State Society, presented evidence something A doctor with a phlegmon on his finger attended a lady in confinement. She died in a few She was nursed by her husband, who soon after had erysipelas In other cases diphtheria was present in houses where confinement occurred, and puerperal peritonitis followed Another gentleman reports an epidemic in his county with 60 or 70 cases and yet nothing was suggested This is the period of maction with us We are theorizing in regard to The battle against them contagion and infection with cleanliness and antiseptics has not commenced

As late as 1881, one of the ablest obstretricians in our State wrote "If pains are frequent and regular and so efficient as to have dilated the os uteri to the size of a dollar, the attendant engages two fingers in its lumen and gently dilates it." The development of the germ theory has brought out the facts that such interference is not only unnecessary but is attended with danger of infection In the majority of cases it is not necessary nor good practice to dilate the os uteri artificially, indeed our instruction and practice should be to make very few vaginal examinations When the doctor enters the lying in chamber he should have the supreme knowledge that he is asep-He should freely use the hand brush with soap and water, and it is hardly necessary for him to make more than one or two examinations The finger should be lubricated with iodoform mixed with sweet oil or vaseline, or a sublimate solution Let as far possible the position of the child be made out by external examination In addition to the doctor's clothes and person being aseptic, there should be a full and complete conception of what autopsies and personal contact with scarlet fever, diphtheria, erysipelas, and suppurating surfaces will do The studies of the past few years have demonstrated this was suspected before its full significance was not Let the placenta be expressed, not followallow some hours to elapse, and change his garments ing perhaps all the details of Credé but with slight traction on the cord and little pressure from above It will not be necessary in a percentage of cases Since we now know that, by worth mentioning to pass the fingers into the vulvar in most cases be destroyed, it is probable that with ruptured perineum let it be closed at once, using all

antiseptic precautions the parts without laceration, or if the laceration is only very slight, wash out superficially with a little carbolic or sublimate and throw in 30 to 60 grains of ing fluid 10doform And if there is the least suspicion of a tainted atmosphere, if, notwithstanding your instruction everything external is unclean and sometimes filthy, see that there is no gaping of the vulvar orifice, and protect the parts by the application of a piece of lint, 6 by 4, saturated with some disinfectant, this to be changed as often as soiled

Attention to these four things will absolutely change the results in general obstretric practice i The antiseptic hand, 2 the clean patient, 3 few, if any, vaginal examinations, 4 antiseptic precautions to the lower part of the parturient canal Time will hardly permit me at this occasion to more than allude to antiseptic precaution to be taken in dangerous, difficult, and impossible labors If the forceps are used they should be thoroughly washed and brushed before introduction, and covered with vaseline and iodoform, a vaginal antiseptic douche should be given before and after the delivery of the child As to whether an intrauterine disinfecting douche should be given after forceps delivery is perhaps an open question, but after all operations where the hand has been introduced into the uterine cavity this should always be done If post-partum hæmorrhage take place, give a hot antiseptic douche rather than to introduce medicaments which may produce infection, and if from any cause dilators or a tampon or the colpeurynter are used, let them all be aseptic

There are a few things applicable to patient and nurse, and it appears to me it would be well to have something in the same line presented, and upon taking an obstetrical engagement hand a copy to

To the Patient —Let her understand that strict attention to instructions which you will give her will almost absolutely insure her against those complications which make the getting up so tedious You make the following suggestions The lying-in chamber should be in a room where no infectious diseases have been treated, and all bed clothing should be prepared by boiling in a given per cent of carbolized water Do not select a mattress which is filthy for fear that a better and cleaner one will be soiled by blood and other discharges during the con-Do not provide pieces of old comforters, Let all appliances for the lying in chamber be those local societies should treat with equal respect the the sanitary condition of which is problematical with the history of which you are familiar borrow syringe or bed-pan, and assure yourself that those you have are boiled or washed in hot water and thoroughly carbolized

To the Nurse -She must be a believer in cleanliness, and must recognize that the doctor is to be director of whatever is to be done No instruments, appliances, package of roots or herbs, or garments of any kind which have been used in other lying in chambers are to be taken to other patients clothes she wears are to be thoroughly washed in a lowing resolutions, presented by the Executive Comcarbolized or mercurial solution, and she is to ac knowledge that she believes in the use of the hand

If there are contusions of brush and soap She is to make no examinations in your absence, and never touch the female genital organs without cleansing her hands in some disinfect-If she has been in attendance at septic patients, she is to receive instructions from the attending physician as regards methods of personal disinfection

DOMESTIC CORRESPONDENCE

A QUESTION IN ETHICS

Dear Sir —A point in ethics How is the action in ethics of the Secretary of a State Medical Association in accord in ethics with the National Association, who, as a member of the Board of Censors of a District Medical Association, recommends an M D for membership in said District Association, when said Secretary knows the M D recommended, and elected on his recommendation, stands at that time suspended from the State Medical Association on charges preferred and sustained?

ENQUIRER

ANSWER We do not know any provision in the National Code of Ethics on which an answer to "Enquirer" could be based The Code of Ethics is designed to define clearly the relations and duties of individual members of the profession with each other, with their patients, and with the community at large But the mutual relations of organized medical societies, County, District, State and National, must be regulated by the constitutions and by-laws that they severally adopt For illustration by the constitution and by-laws of the American Medical Association, no member of the profession can be received as a member who is not in good standing in the local society where he resides if such a society exists, and if any member is regularly tried and suspended or expelled from the local Society of which he had been a member, his name is dropped from the roll of members of the National Association, and remains so as long as he continues suspended or excluded from his The by-laws of many of the State local society Medical Societies establish the same relation between the State and the County and District Societies of If the National and State their respective States Associations thus pay due respect to the judicial and ethical decisions of the more local societies, it would certainly appear highly proper and important that the Do not Judicial acts of the State and National organizations EDITOR]

NECROLOGY.

T R VARICK, M D

At a stated meeting of the New York County Med-The ical Association, held December 19, 1887, the folmittee, were unanimously adopted

WHEREAS, Dr Theodore Romeyn Varick, in obe-

usefulness, and

WHERLAS, We, as Fellows of the New York Co Medical Association, to whom he was endeared by many acts of friendship, desire, in appreciation of his admirable qualities, to pay a tribute to his mem-

Therefore be it

Resolved, That we have ever recognized in him a man of sterling integrity, generous impulses, and THE OFFICERS OF THE NEXT MEETING OF charitable deeds, one who by his achievements in surgery has advanced the knowledge of his art and added not a little to the glory of our common pro fession

Resolved, That we especially cherish his name for his self reliance and independence, his ethical consistency and his loyalty to science, his edifying re marks in debate, and his substantial contributions to medical literature

Resolved, That we offer to his family our sincere sympathy in their sudden bereavement, and trust that their sorrow, like ours, may be mellowed by the memory of a life well crowded by works, begun in conscientious endeavor and ended not without JOHN SHRADY, M D, Pres't benefit to humanity

P BRINBERG PORTER, M D, Rec'g Sec'y

BOOK REVIEWS.

A PRACTICAL TREATISE ON MATERIA MEDICA AND THERAPEUTICS By ROBERTS BARTHOLOW, M A, M D, etc Sixth edition, revised and enlarged 8vo, pp xxiv, 802 New York D Appleton & Chicago W T Keener Company 1887

Additions to the amount of almost one hundred pages have been made to this edition of Dr Bartho low's very popular book Some things that the read er would wish to refer to and learn more of are, however, not mentioned in this edition, e g, lanoline, ichthyol, salt water infusion, blood-injections. Among the additions we find descriptions of antifebrin, antipyrin, strophanthus, sparteine, and other recent The author has, almost to perfection, that impartial judgment and ability to weigh evidence that is most necessary for a writer on materia medica, and this is shown on every page of his book The very complete clinical index is one of the many excellent features of the book

600 MEDICAL DON'TS, or the Physician's Utility Enhanced By Ferd C Valentine, M D, Ex-Surgeon General Army of Honduras, etc, etc Sm 8vo, pp 144 New York G W Dillingham 1887

There is a wonderful amount of good advice in this little book, and it is given in such an easy and interesting way that it is much more likely to be re membered by the reader The book is written for the public in the interest of the physician other "don'ts" might be added Don't imagine that mercury can get into your bones, Don't imagine

dience to the mexorable destiny of our race, has on your face, Don't believe that growing plants paid the common debt of nature in the prime of his (except highly odorous ones) in a room are unwhole-It is rather surprising to note that the author says that "prescribing is the physician's avocation" If so, what is the physician's vocation?

ASSOCIATION ITEMS

THE ASSOCIATION

We learn that the committee of arrangements is organizing and preparing for a large meeting of the The work of the Asso-Association at Cincinnati ciation is now progressing so harmoniously that we can safely prophesy that the meeting will be a successful one in every way We append below a list of officers and the addresses of those with whom members are most likely to wish to correspond

GENERAL OFFICERS

President—A Y P Garnett, Washington, D C Vice Presidents-Duncan Eve, Nashville, Tenn, Darwin Colvin, Clyde, N Y, Charles J O'Hagan, Greenville, N C, A Stedman, cor 14th and Stout Sts, Denver, Col

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natı, Ohio Treasurer—Richard J Dunglison, Lock Box 1274, Philadelphia, Pa

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that your blood is out of order when pimples appear man elect of this Section

REPORT OF COMMITTEE ON PRIZE ESSAYS

DR W B ATKINSON, Secretary of American Medical Association

Dear Sir —The committee appointed at the last meeting of the Association, by the Chairman of the Section on Practical Medicine, Physiology and Therapeutics, to examine essays that had been offered in competition for honor prizes, wish to report that, while certain of the essays showed considerable research on the part of the authors, no award was made, as it was thought that they did not fully meet the standard that should be required

Respectfully submitted

H A Johnson, N S DAVIS, JR,

E F INGALS

ROLL OF MEMBERS-OMISSIONS AND CORREC-TIONS - The name of Leslie E Tefft, M D, of Elgin, Ill, should have been added to the roll of permanent members published in The Journal, of December 31, 1887, and the following corrections in regard to residences have been furnished to us W L Downey, Vernon, Ill, should read Wenona, Ill, W G Putney, Streator, Ill, should be Prairie Center, Ill, A Wetmore, Monroe, Ill, should be Waterloo, Monroe Co, Ill, and the name of Albert Wing should be Elbert Wing

MISCELLANEOUS.

DR WILLIAM B WILSON, of Flora, Ill, a well known practitioner, died on January 19th He was graduated from the University of the City of New York in 1852

GUSTAV BERNUTZ, the distinguished French gynecologist, died at Sedan in December from chronic heart disease, the re sult of rheumatism He left some valuable lectures in manu script form, which will be soon published

PROPOSED OPIUM LEGISLATION -Secretary Fairchild has prepared a letter to Speaker Carlisle, showing the necessity for additional legislation to prevent the smuggling of opium, and recommending either a reduction of the duty on that commod ity or its restriction altogether

SCHOOL HYGIENE —MM F Dubrisay and P Yvon have just produced a work under the title of Manuel d'Hygiene Sco laire, in which all necessary information is given on the situation and arrangement of schools, the personal hygiene of school children, the prophylactic treatment of contagious or other dis eases, the organization of dispensaries

LECTURES ON INEBRIETY -The President of the English Society for the Study of Inebriety, Dr Norman Kerr, is to give the first course of medical lectures on the Disease of In ebriety and its treatment, in the hall of the London Medical So ciety, beginning Jan 12, 1888 Dr T D Crothers, of Hartford, Conn, has been invited to deliver two lectures on the same topic, before the Albany Medical College, Jan 24 and 25, 1888 These will be the first medical lectures on inebriety, formally presented to Medical Societies of Medical Colleges, and will doubtless attract much attention

DR WESLEY M CARPENTER, of New York, was found dead in his bed on the morning of January 7 He was born in 1839, and was graduated from the College of Physicians and Surgeons of New York in 1863 Since 1872 he was connected with the Medical Record, and was one of the best medical journalists that this country has produced His pleasant face was familiar to the members of every large medical organization in the country He was pecretary of the New York Patholog-

ical Society and of the Medical Society of the County of New York, Corresponding Secretary of the New York Academy of Medicine, Acting Secretary of the Practitioner's Society of New York, Clinical Professor of Medicine in the Medical Department of the University of New York, and Editor of the Quar terly Epitome of American Practical Medicine and Surgery

NEW BOOKS RECEIVED

Vierundsechzighster Jahresbericht der Schlesischen Gesellschafft fur Vaterlandische Cultur 1886 Breslau

Zacharıas Allert's Tagebuch aus dem Jahr 1627 ben von Dr. Julius Krebs Breslau Herausgege-

Anatomy, Descriptive and Surgical By Henry Gray Edited by T P Pick New American from eleventh English edition, edited by Wm W Keen, to which is added Landmarks Medical and Surgical, by Luther Holden, with additions by Wm W Keen Philadelphia Lea Brothers & Co

The Throat and Its Diseases, including Associated Affections of the Nose and Ear With Engravings and Colored II instrations By Lennov Browne Second edition, rewritten and enlarged Philadelphia Lea Brothers & Co 1887

Text Book of Therapeutics and Materia Medica, intended for the Use of Students and Practitioners By Robert T Edes Philadelphia Lea Brothers & Co. 1887

A Manual of Organic Materia Medica By John M Maisch
Third Edition Philadelphia Lea Brothers & Co 1887
600 Medical Dont's By F C Valentine New York G W Dillingham

Fever Nursing Designed for the Use of Professional and other Nurses, and especially as a Text-Book for Nurses in Transing By J C Wilson, A M, M D Philladelphia J B Lippincott Co

Irregularities of the Teeth and their Treatment By E S
Talbot, M D, of Chicago Philadelphia P Blakiston,
Son & Co 1888 Chicago, W T Keener

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SFRVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM JANUARY 7, 1888, TO JANUARY 13 1888

Capt Louis S Tuson, Asst Surgeon, relieved from duty at Hdqrs Div of the Missouri, and as examiner of recruits at Chicago, Ill, and ordered for duty as Post Surgeon at Watervhet Arsenal, N Y, relieving Capt Henry G Burton, Asst Surgeon S O 5, A G O, January 7, 1888
Capt Richards Barnett, Asst Surgeon, ordered, from further

duty in Division of the Atlantic, to duty at Ft Riley, Kans, to take effect at the expiration of his present sick leave S

O 5, A G O, January 7, 1888

Capt A H Appel, Asst Surgeon, granted leave of absence for twenty days S O 1, Dept Missouri, January 3, 1888

First Lieut Wm B Banister, Asst Surgeon, ordered from Ft Lowell, Ariz, to Ft Wingate, N 1 S O 3, A G O, January 5, 1888

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U S MARINE HOS-PITAL SERVICE FOR THE WEEK ENDING JANUARY 14, 1888

Surgeon George Purviance, to proceed to Detroit, Mich, as inspector of unserviceable property January 11, 1888 Suigeon H W Austin, when relieved, to proceed to Chicago,

III, and assume charge of the Service Junuary 12, 1888 Surgeon J M Gassaway, leave of absence extended fifteen

days January 10, 1886 Surgeon C B Goldsborough, when relieved, to proceed to New Orleans, La, and assume charge of the Service January 12,

Surgeon Fairfax Irwin, to proceed to Boston, Mass, and as sume charge of the Service January 12, 1888

P A Surgeon H R Carter, when relieved, to proceed to Ship Island, Quarantine, Miss, and assume temporary charge of the Service January 12, 1888

Asst Surgeon P M Carrington, granted leave of absence for

January 10, 1888 thirty days

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ORIGINAL ARTICLES

SPINAL CONCUSSION

Read in the Section on Medical Jurisprudence, at the Thirty Eighth Annual Mee'ing of the American Medical Asso ciation, June, 1887

BY N E BRILL, M D, OF NEW YORK

It is not surprising that actions involving the bas est characteristics of man's nature, the sordid ambition and desire for gain, should be accompanied by such disgraceful and wilful mendacity as is indulged in by both sides in those courts where proceedings for damages resulting from real or fictitious injuries received, occupy the attention of the judges and Wherever greed exists there will surely be found, as its accompaniment, other vices of as despicable a nature, and it is but too true that in this busy community, where the struggle for existence is the hottest and most butter, where success is due to ment and worth, and where industry and zeal alone tend to produce that condition of life which will permit the quiet and deserved indulgence of accumulated wealth, that there is found a large class whose chief desire is to live on the result of the exertions of others, and who never hesitate to utilize any means to acquire that desired end There is good reason, therefore, that suits for damages, brought deservedly and undeservedly, should be attended by those concomitants of avarice and greed, base deception and outrageous mendacity, and stand as a reproach to American medical jurisprudence

Viewing the subject from the position of an impartial observer, we must unfortunately admit, that mulcted, but that no condition in life, either lay or professional, is exempt from the base influences above spoken of The same infelicities may be found in the lawyers defending the companies, in the lawyers prosecuting a speculative claim, in the phy sicians giving their testimony in reference to the case, yea, even in the judges presiding, for it has been more than once the subject of remark that "even judges are corrupt," and hence not only is jus tice prostituted, but it is made the butt for ridicule others which I shall consider when I speak of testimony and its characters, which make a suit for damupon both the professions of law and medicine

It is only natural that, with increased facility for travel, with more speedy locomotives, making a journey between distant points less a task than formerly, railroads are patronized by a larger proportion of the With this increase in the riding popupopulation lation, with this higher development of speed and power, accidents are correspondingly more numerous and more destructive to life, limb and property

Where the injury received is one which is apparent to the restricted intelligence of the average juryman, there is usually no contention, but the companies occasionally settle to the satisfaction of themselves and of the injured, but where the evidences of disease and injury are masked, where no gross anatomical changes can be demonstrated, such as in that form of spinal affection due to concussion, then the contest begins with all the ardor and fervor of That the companies ought not be entirely blamed we may well understand when we reflect that in this disease the most prominent indications of a disturbed nutritive disturbance are evidenced only by subjective symptoms, too well conned and learned by simulators, who not infrequently do nothing but ride in cars in the hope that an accident may furnish them with the cause of applying their illicit knowledge to a pecuniary gain

In speaking of the effects of railway accidents on the central nervous system, we must regard first of all the nature of the person injured It is an undoubted fact, and one which is supported by the experience of all neurologists qualified to give an authoritative opinion, that persons with a neuropathic tendency have, after such accidents, developed functional nervous disorders, eg, hysteria, and that others with a hereditary history of nervous diseases not only is deception practiced by the companies have been likewise affected. Others with incipient nervous disease, which might have taken years to develop into its complete form, have after such accidents been seized with the violence of the disease in full development and soon succumbed it becomes necessary to bring out in all such cases the ancestral history, as well as the history of the patient himself, and though he be burdened by a neuropathic taint, though he be suffering from an acquired but incipient disease, the damages should be awarded just the same as if he had had a perfectly In addition to these causes, there are healthy ancestry, or if he himself had been possessed of all the vigor and strength accompanying the perfection of physical health, for we must be ages resulting from injuries a farce, and brings odium honest enough to say that were it not for the accident the claimant would still be in the necessary mental and physical condition fit to meet with the obstacles which must be overcome to make a living, and which could not be accomplished under circumstances entailing suffering and discomfort

While there is no reason that railroad accidents should not produce or provoke tabes dorsalis, such an occurrence is not yet proven But it is to be regarded as established that external injuries may restart an arrested or cured ataxia and aggravate an existing one 1

The effects of injury by railway accidents are various, and may be divided into two classes first class will comprise all the cases where the in jury is demonstrable both by its objective signs and by those subjective symptoms which we would expect to be present from an accurate knowledge of inches in the upper lumbar region where it was soft the physiology of the nervous system class will include all those cases which, from their very nature are unattended by any demonstrable signs, and which the neurologist alone can believe to be present by judging the subjective symptoms enumerated by the sufferer It is this class of cases to which the courts are most frequently introduced, and which are most frequently simulated by individ uals impelled by speculative rogues and shysters to a railroad should be held responsible where an accibase action for damages, and by whom even physicians are so liable to be deceived

It is my purpose in this paper to restrict myself chiefly to the consideration of this class, merely introducing certain other forms as subsidiary, and to utilize the latter wherever they may throw light upon and assist to a more accurate knowledge of the former, and be serviceable in deducing legal conclusions

That the consideration of even this restricted class of cases is one not unattended by difficulties, we have alluded to when we hinted at the data upon which verdicts are based If we free ourselves from the burden which legal precedents establish in arriving at such contradictory conclusions, and keep in mind, notwithstanding the testimony only too frequently offered by railway doctors who, with the greatest equanimity and without any pangs of conscience, deny that any serious damage can possibly accrue from any concussion, and who even throw aside all the most tangible and direct evidence of injury, that some of the most serious forms of central nervous disease, such as tumors, hæmorrhage of the spinal cord, and myelitis, do incontestably result, and if we weigh the evidence offered by both sides, reflecting that partisan spirit occasionally, if not frequently, leads to exaggerated statements, I think we may arrive at an honest and just conclusion, and one which the data of science will verify

This brings us then to the consideration of the pathological effects of concussion on the central

Unfortunately we labor under the disadvantage of coming to any conclusion as to the pathology of this class of affections, by the fact that the literature on Reports of cases with the subject is very limited autopsies (for it is only by post mortem evidence that the nature of disease can be determined), are very few, in fact, I have been able to find but three

One, a case reported by Sharkey, of a woman felled by a falling house, but who showed signs of a congenital defective development, such as partial paralysis and atrophy of right leg and arm, without loss of sensation, but with some contraction of the flexors of the arm, with exaggerated patellar and plantar reflexes, but no ankle clonus

There were no evidences of gross injury to any of the structures containing the brain and spinal cord, or of the tissues supporting the spinal column The congenital defect showed itself in an asymmetry of the brain, the left hemisphere being smaller than the right, and in a corresponding sclerosis of the right lateral column of the cord half the cord was normally firm except two or three The second and slightly wrinkled transversely The upper half, though not pathologically softened, was not so firm as the lower lumbar region In several places the right anterior cornu looked smaller than the left" Sharkey considers the autopsy to have yielded negative results, and attributes the softening in the lumbar region to post mortem changes

The interesting legal question arises as to how far dent, occurring through carelessness of their employes, produced symptoms of disease in a congenitally deformed individual This question was prompted by the case above alluded to, reported by Shar-In this case the neurologist is able to perceive that new damage was done, and what signs of defective development were original, since the examination of the spinal cord demonstrated the original abnormality and the acquired defect

A well known case described by Leyden, of spinal concussion due to a railway accident, in which the patient's symptoms for a time were but trifling, and he, not improving and becoming unable to work, was mistaken for a simulator, and finally, after many years, severe symptoms developed and resulted in The history of this case showed with precision the development of the morbid process and its connection with the original injuries, and the autopsy demonstrated a picture which was essentially dependent on a traumatic origin, viz a chronic inflammation (caseous) of the meninges, forming a peripachymeningeal tumor

A third case is found in the coroner's report of the accident at Wurzburg, where a man of 23 died three and one-half days after the accident, with symptoms of coma and dyspnæa, and chyle in urine topsy showed innumerable small punctiform hæmorrhages in the brain substance, about i cm in diameter The skull and spinal column were intact The patient, after the accident, developed symptoms and signs which could not be attributed to the original abnormality, and which Sharkey rightly considers to be due to the concussion accident For this further disability, restricting still more the field of usefulness of the individual, I am of the opinion that a compensatory remuneration should be given, which would be both equity and justice

In view of the light which subsequent investiga

Brain, Vol vii, p 99, 1885

morbid anatomy of the cord after these accidents, I do not think that anybody now accepts his expla That there is no inflam nation as at all plausible mation of the spinal membranes has been demon strated on innumerable occasions, both clinically and on post mortem examination Indeed, his term spinal meningitis is inaccurate, as there has never been demonstrated any inflammation about the spinal the hysterical mental state, be abandoned cord It seems that the molecular disturbance which the cord undergoes from the sudden shock is one in common to this affection

Erichsen's description would at the present time cause his cases to fall under the category of spinal we are deeply under obligations to him for his expo sition of a subject which had been veiled in incerti tude and doubt, still we ought not, on that account, accept as dogma what has not been satisfactorily

Berlin's compares the effect of concussion on the as a result of which the retina developed a slightly diminished acuteness of central vision and presented, 'hysteria on ophthalmoscopic examination, a clouded and Both of these conditions disap dulled appearance

peared after a short time

Thomsen and Oppenheimer together studied the disturbing effects of railway accidents on sensibility and on the special senses, and Putnam, of Boston, records a few cases where concussions have produced, in male subjects, impairment of the sensibil ity, general and special, of one side of the body, and sometimes in a slighter degree, of the other side In three of the latter's cases (five are recorded), no claims for damages were instituted, and hence there was no ground for simulation or deceit, so that Put The latter also sup nam's findings are trustworthy ports the views of Oppenheim and Thomsen with regard to the significance of hemi anæsthesia, which does not necessarily justify the diagnosis of hyste Charcot, in a recent contribution to the subject, characterizes the mental and sensory disturb ances of "railway spine" as hysterical, and contradicts this important conclusion of Oppenheim and Thomthat in a certain class of cases irreparable damage to the nervous system is done, by the very easy process of ignoring their strongest argument, so that one feels tempted to compare his procedure heim and Thomsen regard such symptoms as optic æsthetic over forehead to eyebrows nerve atrophy, paralysis of certain pupillary movements, and epileptic attacks, as definite symptoms which neither simulation nor hysteria can mistake, and which indicate organic change of some kind Certainly their conclusions are in accord with the

It is high time that neurologists, with all due deference to their scientific acumen and ability, should volving the ultimate anatomical elements, the nerve abandon the custom of exhibiting their ignorance by cells, interfering with their nutrition and their vital ascribing all phenomena which they cannot explain ity, and thus producing the features which are so on an objective basis, to that vague disease, hysteria This has its analogue in the practice of those physicians who call all, to them inexplicable phenomena of disease, malaria, and which is but a cover to hide Although there can be no doubt but that their inaccuracy, or but an expression of a want of

knowledge

Here is a symptom complex, indicating a disease which is allied to the neuroses, like hysteria, like spinal irritation, like epilepsy, but which differs from them in many particulars, the latter indicating inte-But because there is a similarity in gral changes central nervous system to that of a blow to the eye, the picture to these neuroses, there can be no justification in combining all the neuroses under the term Oppenheim considers this an important point that in his cases epilepsy in all its forms (the epileptic attack, petit mal, psychical equivalent), is a most conspicuous feature, while hysterical convulsions of the form which Charcot describes with "grands movements arc de circlé, etc ," are subordinate features, and he repeats the statement that anesthesia, with the envolvement of the sensory functions, is not characteristic of hysteria

Oppenheimer⁷ reports the following

Thrown from Case I—C B, æt 28, fireman Struck head on pave horse attached to engine ment and cut a gash over right eye and wounded Unconscious Subsequently, scintillations and convulsive seizures In attacks tore about, lost consciousness for some moments, at others suddenly jumping up and forcibly attempted to escape, and restrained only with difficulty These attacks preceded by pain in scar and scintillations in right eye After attacks severe right sided headache for half The patient himself observed that the skin in When washing he nocertain spots is insensible ticed, on wetting his hair, that he could not feel on anterior half of the scalp Sexual power gone disturbance of intelligence or memory

Examination of sensation shows anterior half of to that indulged in by "medical attorneys" Oppen- head anæmic to tactile and pain irritation, also an-Lower third of right forearm and hand insensible Muscular sense of right upper extremity much injured

jective symptoms and objective signs taken most'y from his summary

tions have thrown upon Erichsen's explanation of the current views of all neurologists except M Charcot They are therefore justified in protesting against M Charcot assuming that the usual capricious change of signs found in female hysteria is replaced by melancholia and depression in male hysteria, and thus justify the diagnosis of "railway spine" as a hysteria They rightly argue that the sufficiently vague picture of hysteria will dissolve entirely if its best criterion,

³ Wandeversammlung der Sudwestdeutchen Neurologen und Ir renarzte in Baden Baden am 21 u 22 Mai 1881 4 The Medico Legal Significance of Hemi Auæsthesia after Con

eussion Accidents

3 A propos de six cas d'hystérie chez l homme Leçons etc
grès Médical 1885 No 18

The wisest are not proof against error and a mere error especially where it is honestly admitted can constitute no reproach to the fame of M Charcot. But his unfortunate experience in the past should teach him the need of caution and that it is unwise to categorically formulate. He had the misfortune to discover lateral sclerosis in a woman with spastic contracture which he regarded as hysterical. It is true that rather than abandon his diagnosis. M Charcot resolved to sacrifice every definition of hysteria but the neurological world at large were not prepared to join in the sacrifice.

Arch fur Psychiatric Bd xvi 3 5 743 1885. The following two cases are selected from the ten recovered and the enumeration of subjective symptoms and objective signs taken most's from his summary.

lower extremity diminished sensibility in lower portion of thighs and feet. Also disturbed muscular sense in feet Absent, sole reflex Vision scintillations, concecutive narrowing of visual field for cuted with slight force white and colors on both sides

Westphal's Case 8—The patient whom I present to you (Berliner Gesellschaft fur Psychiatrie und Nervenki ankheiten) was perfectly well up to January 14, 1886, when he was the victim of a railway accident He was the baggage master in a freight train, and suddenly felt a concussion, followed by another, was hurled forward and fell unconscious to the floor Be came conscious in five or six minutes When removed from the wreck he showed no external injury, feeling of distrust. Their fears are undefined ("I but was immediately very much excited restless and broken by wild dreams he complained of pains in the head and back, he had paræsthesiæ of different kinds, sensation of deaf When examined the psychical anomalies ness, etc and disturbances of sensation were predominant

Patient is fearful, ill tempered (vershieunt), and is troubled with hypochondriacal hallucinations (vorstedungen) Sleep is bad, even during the day he tinually complain of them to the physician is seized with intense fear, which at times has no defined motive, at others is called forth by the sound not be demonstrated any inordinate disturbance in of the locomotive of a train seen forms and was much worried thereby psychical anomalies of a hypochondriacal melancholic character are very constant. Of a very peculiar character are the anomalies of sensation, which are ever present and do not change in intensity and extent Sensation remains in only circumscribed portions of the surface of the body, viz in the region of the nasal orifices, on the lips, over the lower half of the sternum, over two symmetrical regions on the anterior surface of the forearm, over the most of the region between the left seventh and ninth cervical vertebræ on left side, over two symmetrical spots on the inner surface of the upper thigh, and finally, on the penis and scrotum While on these small regions of the skin tactile and painful irritations are well defined, and temperature sense is present, on all the rest of the surface of the body (including the mucous membranes) sensibility is entirely abolished to all irritations

The muscular sense is also not intact, still, its exact

extent has not been clearly determined

With disturbances of sensation are also disturbances of special sense the field of vision shows lim itation for white and the colors, smell and taste are almost entirely abolished, and acute hearing on both sides, especially left, diminished Ophthalmoscopic examination shows nothing abnormal Patient complains of photophobia and scintillations before the broken by gaps and was incorrect No signs of paralysis of the ocular muscles are eyes present

As far as the motility of the extremities is concerned the strength of the hands is very little, voluntary movements are accompanied by tremor, which

occasionally presents itself in rest

Patient walks carefully, with difficulty, and soon

When examined on his back, quite a stiffness tires in the joints is perceived Tendon reflexes are of the usual strength, the active movements are exe-

These are but two of ten recorded cases of Oppenheim, and are here utilized to bring more forcibly to your consideration the psychical and physical disturbances In all the cases recorded the chief psychical change is the emotion of fear, the patients are sad, have painful conceptions, shun society, are fond of isolation, are indisposed to speak, and when they do speak harp on their sufferings and their disease, are easily disposed to cry, and some have a morbid Sleep was feel as if I had committed a crime, and as if some Subsequently misfortune were going to happen to me," etc.)

> The most complain of insomnia and some of restless sleep disturbed by fearful dreams, in which the history of the accident plays the chief iôle psychical disturbances are hypochondriacal in character, and the patients exaggerate the slightest uncomfortable sensations, brood over them and con-

As far as the intelligence is concerned there could Occasionally he has any of these cases These persons are not psychi cally weak, but they are not able to undergo any continuous mental exertion All complain of weakness of the memory, but a more minute examination shows that their memory has not suffered essentially They can recall quite well the from its normal events of the far past, but, on the other hand, they forget commissions which have been recently intrusted to them, also names, residences, etc in one case was there conspicuous weakness of memory, in that events which ought to have definitely interested him were entirely obliterated from his memory

> All the patients report attacks of syncope quently there was but an evanescent vertigo with in distinct consciousness, at other times the attacks could not be differentiated from those of petit mal In one case there were distinct epileptic attacks, the patient fell suddenly to the ground with loss of consciousness, and lay motionless for many hours After these attacks there was a marked change for the worse in their general condition In the first case reported, attacks of complete loss of consciousness occurred, preceded by an hallucinatory condition of cloudiness, of dreaminess and of fear, called forth frequently by external causes-signal of the fire en-After these attacks the sensorial anæsthesia also deepened, and the memory of the occasion was

Subjective Signs - Patients complain of pressure in the head, more or less of headache and pain in the back of the neck, dull sensation in skin of scalp, also peculiar paræsthesiæ in the same place (as if worms were creeping under the skin and like sensations), feeling of giddiness, of drunkenness and ver-The vertigo is to a greater degree continuous, and increases occasionally so that the patients have to hold on to prevent themselves from falling

few cases there was obstinate vomiting

Berliner Gesellschaft für Psychiatrie und Nervenkrankheiten, Mai 11, 1885 Arch für Psychiatrie und Nervenkrankheiten, xvii, S 281, 1886 also xvi, S 747, 1885

tinually raining finely

ances are almost unspoken of

back and loins, and indicate themselves by their difficulty in walking the truth of these sensations and a girdle pain was indicated

In five cases sexual power was entirely obliterated An almost constant indication of the disease was painful expression These sensations the disturbances of sensation in intensity and mode of distribution Usually there membranes The sole refleves may be entirely absent only confined to the skin and mucous surfaces, but cases thesia which is spoken of by French authors as its served characteristic form occurred in our observations but seldom, but, on the other hand, it was not uncommon that one half of the body suffered intensely while the other half but partially

A few times there was bilateral symmetrical anæs thesia, the anæsthesia being distributed to symmetri With a pecucal spots on both halves of the body har preference were the hairy scalp and the forehead to the eyebrows the seat of the disturbed sensation Again, there are greater or small regions over the extremities in which altered sensation was prominent The presence of entirely circumscribed spots of sen sation within an anæsthetic territory is remarkable In one case the fingers are sensitive, while the other parts of the upper extremities have no sensation In the lower extremities these exceptional spots are re stricted to the soles of the feet

The least constant in these cases is the disturbance of the so called muscular sense A remarkable phenomenon is the fact that in some cases the patients complained after one half to one hour of the pain produced by the prick of a pin to the anæsthic part

Sometimes functional disturbances are confined to an individual organ of special sense, at others to all of them Limitation of the visual field is the constant factor in the group of sensible sensory anomalies, still, there are cases in which, notwithstanding the disturbances of the functions of the other special sense organs, there is no marked alteration in excentric vision

As far as the results of the disturbances of sensation on other troubles are concerned, these are not, for the most part, material Delicate manipulations with the hand are hindered by the dulled sensibility, but usually only so little that the affected individuals can help themselves very well with the use of their The limitation of the excentric vision does not materially influence the determination of position not materially influence the determination of position in space. Hirschberg, though, calls attention to the

They complained of flashes before the eyes, or of fact that excentric vision is not entirely obliterated a cloudiness as if from smoke or as if it were con- in the apparently absent part of the visual field, else On their attempts to read the these patients could not determine their position in letters seem to dance and merge into one another, space. But Oppenheimio says that in a part of his at times the field of vision is darkened for a few cases excentric vision in the obliterated territory was seconds In one case there was the conspicuous entirely gone, in others the movements of large obphenomenon of vanthopsia which occasionally oc spects were certainly recognized, but that in his cases there was a good harmony, for the most part, be-Many complain of obstinate tinnitus aurium and tween the degree of visual field limitation and the of impaired hearing power. Smell and taste disturb. disturbance of the ability to determine the position in space, since the limitation of the visual field from All complain of pains and feeling of tension in the 30°-40° does not produce any prominent disturbances

Not infrequently are there skin territories which In manifest pain when disturbed Especially is this true a few instances there was a distinct girdle sensation, of the lower region of the back, if pressure on the spinous processes evoked much pain, a few cases manifested even on slight touch of the skin marked

Corresponding with the diminished sensation there present in the different cases the greatest differences is diminution of the reflexes of the skin and mucous is sensory anæsthesia, i e, dulness of sensation is not. Absence of corneal reflex was never found in these Tendon reflexes are either normally present or also to the organs of special sense. The hemianas are slightly exaggerated, their absence was not ob-

> There is a certain retardation and want of energy to muscular movements, although, on account of the attending pain, it is difficult to determine tempting to raise the leg from its position the patients double up with pain, press their hands over their hips, Almost typical is the position of the body in standing, walking, in sitting erect, and taking their Each patient endeavors to protect his vertebral column from every concussion, as a result of which he does not move the upper half of his body, arises by supporting himself with his hands and slowly draws himself up by their means They walk slowly, spread their legs apart, usually in walking they place their hands over the small of the back Swaying on closed eyes was not observed

A moderate degree of tremor is present the disturbance of motion has the form of a hemiparesis, and in these cases the anæsthesia has its chief seat in the paretic half of the body, but the hypoglossal and the facial regions are not involved

The bladder function is frequently disturbed, the urine only being passed after much pressure, in one case urmation could only take place in the sitting position, and one patient had to use the catheter

Constipation is a common complaint The foregoing is the common symptom picture The following are the differences from the stereotyped form One case presented disease of the optic nerve on ophthalmoscopic examination A definite atrophy of the optic nerve was found in another, right iridoplegia and inequality of the pupils in another

Signs of organic changes, differential diagnosis:

Indoplegia, optic nerve atrophy

Signs not found in the neuroses Abolition of sexual power, bladder paresis, girdle sensation

Oppenheim's conclusions are partly as follows

That sufferers from these accidents present devel oped disease symptoms which do not indicate any individual disease, and do not present many variations among themselves, notwithstanding they possess common features

psychosis and neurosis

That a great percentage of the cases show features indicating an insidious, continuous organic disease

of the nervous system

Since the result of these trials depends to a great part upon the evidence and testimony offered and given by men who are supposed to occupy the highest position in their professional sphere, who are credited with such an accurate and complete knowledge of the special subjects that their opinion is considered to be authoritative, it behooves us to consider whether the popular ideal of an expert is substantiated by the exhibitions of the majority of those who have appeared so frequently in the arena of litigation Have this majority the necessary qualifications of he whose education has been so conducted that he is training and education to give that evidence which in its effects may work incalculable damage by permitting the guilty to escape or bringing hardships to the innocent? As a silent, observant witness to numerous litigations, involving not only property but life, I can fairly say that it is exceptional to find one who has the necessary amount of knowledge, whose mind is sufficiently well educated to reason and to assimilate scientific truths, who has sufficient industry and energy to devote himself to almost incessant study, for the strides which science is taking are so great, that it requires all the time and attention of the scientific man to keep apace. But there are a few men who have these abilities, and who hesitate to enter courts to give the results of their study on account of the opprobrium which rests, and with What a justice, on experts and expert testimony benefit to mankind would it be if the courts could be cleansed from those experts who linger about the court-rooms or in neighboring grog shops¹¹ waiting for an anticipated case, who, having procured by some occult means political influence, receive the appointment of judges as commissioners de lunatico inquir-

Indeed and in fact the "political doctor" is as much to be feared as the "railroad doctor"

It is not without just cause that so much complaint has arisen over this class of testimony, and is due not only to the venality and bias of the expert and his ways, but to the ignorance of the lawyer The framing of hypothetical questions and the desire of lawyers to obtain answers to them independent of the relations of the assumed facts to the case under investigation, has wrought more harm than good, and tends to stultify the expert giving his testimony, the lawyers themselves being partly to blame for the effect produced on the public mind in their estimation of expert testimony

Another evil factor which operates is the system of badgering and attempting to confuse the witness which lawyers undertake in order to diminish the value of the expert's testimony by involving him in

a contradiction It is not my purpose to undervalue the system of cross examination Far from it! for I consider that an honest cross examination is the best means at our command by which we can test the ability and qualifications of the witness But I think That a part of these cases present a mixture of it high time that the arbitrary cross examination employed by lawyers should cease I have often listened to them attempting not to gain information, but simply to waste the time of the witness must consider that a physician's time is not only pecumarily valuable, but is often devoted to the saving of life,12 as well as to alleviating suffering) It is indeed unfortunate that one has no redress therefrom, yet we can console ourselves with the fact that the oftener this species of examination is indulged in, so much the oftener will the lawyer utilizing it find himself digging his own grave

We may ask ourselves What constitutes and what factors enter into the formation of an expert? This question can be answered from two aspects thoroughly well acquainted not only with all that is known of the special subject in his own country, but with the entire literature of the subject and, in addition, whose mind is so trained that his powers of observation and reasoning are such that he is able to form rational conclusions from observed cases, be they few or be they numerous For I am of the opinion that one case well conned and well observed is of more value than the careless and superficial examination of many Second, he may be designated an expert, whose experience has been so extensive in personal examination and reflection about cases that, with a relatively limited knowledge of the special literature, he is quite capable of giving a trustworthy The latter's powers of observation, however, must equal those of the former, and his mind must be equally as logical, otherwise all the expenence thus gained would be useless and valueless, and represent only barren isolated facts, from which there can be no deduction I think the expert belonging to the former class exceeds the one belonging to the latter in value, for he has not only an individual experience to guide him, but is thoroughly and perfectly acquainted with the experiences of all who by their recorded works are qualified to give authoritative opinions, whereas those of the second class have but an individual experience which, however great, cannot approach numerically that of the collected experiences of the rest of the scientific world

It would seem useless for me to emphasize the fact that the expert must, in addition to his educational It seems to me, qualities, be thoroughly honest though, that such an emphasis is necessary, for I have not infrequently heard the same expert give different answers to the same scientific fact on different occa-This is one of the reasons that I consider a rigid cross-examination as the best means to weed Fortunately, we have out the dross in our midst stenographic reports which accurately record the

¹² I have here in mind the cross examination of one of our most learned specialists, who was assured that he might leave in time to perform an operation which held in the balance life and death, and was detained by utterly useless questioning for 1½ hour beyond the agreed

have lawyers who know how to utilize such reports It is thus that cross examination not only reveals the status of the expert as to knowledge, 'but as to mo rality For is not the inference deduced from hearing an affirmative and subsequently, on another occa sion, a negative of the same scientific fact, according as such an expert (1) is testifying for one or the other side by whom he is engaged, sufficient to stamp him as dishonest and purchasable?

I would venture to say that, could we rely on the morality of experts, we would not find so many ar rayed against each other, for, were all actuated by the desire that truth should prevail and with no re gard for the condition of their pockets, there would be in the great majority of litigations but one ex-How can a fact be anything else pressed opinion than a fact, and how can the significance of a certain regular combination of signs or symptoms be consid ered in any other than their true significance? There may be honest differences of opinion in reference to the application of solitary facts or the significance of individual criteria, but there can be otherwise no honest cause for arriving at contradictory conclu Even in this connection there is more or less cant connected with the expression "honest differ ences of opinion" I do not think I need hesitate to say that the so called "honest difference of opinion" is in nine cases out of ten due to absolute ignorance of the subject on the part of witnesses and that this too frequently cited phrase is but one of the means by which astute, if not thoroughly honest lawyers try to cover and conceal the ignorance of their expert

Let the expert ever remember that his claim as such stamps him as a public man, whose actions are always viewed with microscopical exactness, and whose weaknesses are ever ready to be seized upon and magnified by a zealous and watchful public he pay attention to this it will not be long before he will give up that permicious habit of arguing the case, and confine himself strictly to his proper position the adviser of the court, counsel and jury aware that an evil jealousy exists among this class of witnesses, and that they, by having become em bittered by the greater success of some of their col leagues, have been led to step across the bounds of professional conduct, which should be an open, hon est expression of opinion, to one of mean, small and contemptible inuendo, which by its hidden sting is calculated to rob the testimony of the opposing witness of its force These men have become too cow ardly to openly attack their opponent with the weap ons of knowledge, or enter the lists in a fair contest of condition and intelligence, but must assail their antagonist with the meanest aspersions has passed when it is considered a reproach and degradation for a man who has been honestly en gaged in a study of comparative anatomy, and has utilized all the means at the control of science to become thoroughly acquainted with the subject, and who, having succeeded in this most laudable object, turns his attention to the instruction of others, to receive the application of the term "horse doctor," Read before the Society of Medical Jurisprudence and State Medi which was once suggested by an envious expert to

statements of medical experts, and fortunately we the attorney engaged in cross examining an opposing witness in a most noted recent trial Let the expert be perfectly fair and stand only in the position of one who is citing facts and elucidating truths which shall enlighten the court and jury, and assist in bringing the latter to an honest verdict. The jury are cer tainly intelligent enough to immediately perceive the expert physician attorney, and to reason that he I think it was chiefly this habit is a biased partisan of arguing the case which was indulged in by the expert witness for a large railroad corporation in a recent trial in New York, which induced the jury to give such an exceptionally large amount of damages, although to my mind the case was a sham one, and the railroad unjustly mulcted The following was a portion of the expert's testimony "

> O Will you be kind enough to tell the jury what is known as spinal concussion, in your opinion?

> A That is a term, spinal concussion or railway spine, or nervous shock due to railroad accidents, which has become very fashionable in the last two or three years, it was first discovered by Mr Erichsen, an English surgeon, and has been spoken of by several of the English authorities I look upon it as a very dangerous term, because it opens the door to unprincipled persons, who make use of it, when there are no nervous symptoms, to prosecute corporations

> Dr Spitzka, i in commenting on this testimony, "It is remarkable that the dangers of such an an answer to the defendant were not appreciated There is no jury of average intelligence that could not detect the bias of the witness giving it, and who would not naturally judge from the methods to the justice of the cause in whose interests they were em-But in this case it seems that the witness ployed was put on the stand to argue the case, for the counsel calling him followed up the above cited with the following

> Q Have you read Erichsen's work on nervous diseases?

A I have, sir

Q What is your judgment about that book?

A I think it is a very dangerous book 16

Q A dangerous book?

A Yes, sir, because it prevents scientific truth "If authorities are to be pronounced misleading and dangerous merely because they inculcate teachings which happen to support 'the other side' in a litigation, we may as well abolish them all"

Testimony like this is not calculated to strengthen the opinion of the public in the integrity of character of the expert, nor to produce a feeling of conviction as to the importance of expert testimony Indeed, the people have just cause to complain and have firmly expressed their convictions as to the unreliability and unimportance of this testimony

Is there not some cure? Assuredly, yes, and it

¹¹ Supreme Court County of Kings John I Harrold against the New York Elevated Company Case on Appeal 1880 Ref Proceedings of the Society of Medical Jurisprudence and State Medicine

is to be found in the very weapon in the hands of sents some 5 to 10 millimetres of clear space above the attorney cross examination It does not require an extended course of searching to elicit the incapability of an ignorant witness, nor to impeach his veracity where he has made his pecuniary aims the chief standard of his testimony I can advisedly state that a rigid cross examination by a competent less, but not invariably so But from this scarcely lawyer is the best means to either substantiate the position of the educated and scientific witness, as it is to discover and reveal his ignorance, his want of knowledge of scientific facts, and his character

It is useless for me, in such a paper, to enter more fully into the discussions of the means suggested to strengthen the position and importance of expert suggestions are inapplicable in the present state of a Republican government, where politics and political persuasion and influence are the most important factors in selections to official positions Hence the practice of Continental governments in appointing those men who, by their work, have advanced themselves to the highest pinnacle of knowledge in their special subjects, to the position of expert adviser to the court, beneficial as it is abroad, would not be accompanied by the same felicitous results in this country

HYPERTROPHY OF THE PHARYNGEAL TONSIL (Adenoid Vegetations of the Vault of the Pharynx) BY H GRADLE, MD,

OF CHICAGO

The frequency with which children are allowed to suffer for years, without recognition of the trouble, from blockage of the naso-pharyngeal space, seems to the writer sufficient excuse for presenting this article Admitting that these notes are but the confirmation of the work of others and do not claim to be an extension of our knowledge, it still seems desirable to me that this affection should be brought more to the notice of the profession at large, and not remain unknown outside the ranks of rhinologists

Most of the standard works on medicine scarcely mention this disease, if they refer to it at all, and even in the latest edition of Gray's Anatomy the existence of a normal pharyngeal tonsil is simply ad-As a matter of fact, mitted in one short sentence it is my luck quite frequently to see children whose nightly rest has been constantly disturbed, whose hearing has been imperiled or damaged, and whose growth even has been stunted by an easily remediable anomaly that had been overlooked or ignored respiration, especially of the expiration in the case for years by the family physician

The adenoid lymphatic tissue which underlies the mucous membrane of the pharynx is collected in a larger mass at the roof of the pharyngeal vault above and behind the posterior choanæ forming the pharyngeal, or Luischka's tonsil On its pharyngeal surface this organ is raised into ridges running in a sagittal direction, which ridges atrophy gradually after the age of puberty is passed, at least in most persons Normally the rhinoscopic image of the adult pre- Rachentonsille 1886 This tonsil is very frequently hypertrophied

the upper margin of the posterior choanæ not filled by the glandular mass Not rarely, however, the tonsil is enlarged sufficiently to make the roof of the pharyngeal vault flush with the border of the choanæ Such minor degrees of hypertrophy are often harmmorbid enlargement there occur all gradations, up to a tumor filling the entire pharyngeal space down to the level of the soft palate

In youth the enlarged tonsil is always lobulated The hypertrophy involves not only the body of the tonsil but also the ridges, giving the mass a coxcomb shape with irregular fringes and polypoid promi-It may be sufficient to state that all such nences If the tumor be allowed to remain beyond the age of puberty it acquires gradually a more regular outline by reason of the atrophy of these fringes and projections The more lobulated and fringed such a tumor, the greater is usually its vascularity and the softer its consistency, which makes it more difficult to grasp this soft movable mass with any instrument than the harder tumors of more regular The rarity of extensive hypertrophy of this tonsil in adult life renders it likely that the enlargement gives way to atrophy after the period of growth

The disease is much more common than is ordinarily supposed More than one-fifth of the children brought to me for ear disease suffer from this affec-In adult life, however, the predisposing conditions of ear disease multiply in number, so that the frequency of pharyngeal vegetations is considerably

less in adult aural patients

The causes leading to this enlargement are not vet evident It is often seen in scrofulous children, but my experience inclines me to think that it is more commonly the cause than the result of the condition known as scrofulous diathesis Such at least is the conclusion suggested by the improvement in general health after operative removal of the en-The query whether the larged pharyngeal tonsil tubercle bacıllus might be the cause of this disease, has been answered in the negative by the researches of Trautmann 1

There is evidently some irritative process favored by certain climatic influences which leads to the enlargement of the pharyngeal tonsil and very often also of the oral tonsils, and of separate lymphatic follicles in one and the same individual Nasal, or pharyngeal catarrh, may complicate the condition but it can occur without any evidences of inflammation of the mucous membrane

The direct symptoms are those of impeded nasal of softer tumors, which act like a valve The interference with the movement of air through the nose depends on the size of the swelling and on its vascularity Since the enlarged pharyngeal tonsil is capable of holding a variable amount of blood, like the entire mucous and submucous lining of the nose, any acute catarrh, or even the recumbent position, will cause it Hence the annoyance is most marked in to swell bed The children breathe with their mouths open and

usually snore when asleep The voice has a charac teristic "dead" timbre, there is no nasal resonance catarrh, the final n sounds like d, the m like b speech is so characteristic in well marked cases, that it enables the expert to make a diagnosis at once The enlarged tonsil often gives rise to venous conges tion in adjoining regions. Not rarely the eye lids and lips of such little patients are swollen and show Quite commonly the cavernous tissue of the nose is distended and adds its obstructive in influence to hinder still more the nasal respiration Trautmann claimed that the congestions were due to pressure of the enlarged gland upon the pharyngeal veins. But his own plates show the existence of such extensive venous anastomoses that this mechanical explanation seems to me insufficient Possibly the venous distension may be the result of augmented ve nous pressure during the impeded expiration Possibly nervous influences may account for the relaxation of collateral veins Trautmann also attributed the fre quent enlargement of the oral tonsils accompanying adenoid vegetations to this venous stasis, and claimed that the hypertrophy of the oral tonsils often recedes after extirpation of the pharyngeal gland This latter statement I cannot corroborate from my own expe

Reflex symptoms often accompany this affection The children may complain of frequent dull head ache, mainly in the occipital region, which does not return after the operation Sleep is often interrupted by sudden starts or persistent restlessness, probably due to harrassing dreams or nightmare A large number of my patients had vesical incontinence and soiled the bed every night. But since this annoyance did not disappear within the first few weeks after the operation I cannot claim with any positive ness that it was caused by the nervous irritation due to the enlarged tonsil, although its frequency renders a causative relation probable Occasionally a persistent cough was observed, like that of a mild middle ear degree of bronchitis, which ceased soon after the Quite a number of my patients were puny and scrofulous children of retarded growth and impaired vigor, though not considered really sick by their parents, merely delicate Since in some eight or ten of such cases a decided improvement occurred in the growth and vigor and general health of the children after the operation, I cannot but conclude that the tumor in the naso pharynx was the cause of their delicate health

hypertrophied pharyngeal tonsil is the ear are probably very few cases of extensive enlarge. in the direction of the cutting edge by disease of the middle ear simply impaired hearing without any active symptoms that so easily elude the grasp referable to the ear, and without any evidence of im

a few inflations of the ear hastens the restoration of But graver and more acute complications Similar as in the obstruction due to intense nasal also occur in the form of either suppuration or protracted catarrh of the middle ear These secondary affections once started are now to a certain extent independent of their original cause They require treatment of their own and can mostly be cured without removal of the enlarged tonsil, but are very apt to relapse, until the predisposing condition is obviated Fortunately the ear complications are as a rule amenable to treatment, though a long neglected catarrh of the middle ear may lead to permanent lesions

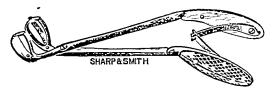
> The diagnosis of hypertrophy of the pharyngeal tonsil is suggested whenever a child presents more or less persistent obstruction of the nose, a dead timbre of the voice and occasional nasal hæmorrhages (although the latter have been rare in my experience) It should be thought of in every case of infantile ear disease If feasible the diagnosis is made absolute by the use of the rhinoscopic mirror But the mirror can only rarely be successfully used in children of less than 8 or 10 years of age In such unsuccessful cases the diagnosis depends upon the use of the finger The curved index finger introduced through the mouth behind and above the soft palate, detects a soft, flabby mass filling the naso pharynx, instead of the smooth wall of the normal space The examina tion is very unpleasant, and in pronounced cases is really unnecessary

No successful treatment has yet been devised except operative procedures, but the results of thorough operations are all that can be desired While nitrate of silver, in the form of dilute spray, may relieve the symptoms if aggravated by catarrh, it cannot cause absorption of the enlargement Cauterization with the galvano cautery is more efficacious, especially if we use a broad platinum blade, like a gouge, and thus remove fragments But this procedure is quitepainful and occasionally leads to suppuration of the With the ring shaped knife, originally used by Meyer, and passed through the nose, I have had but little experience It has seemed to me more unpleasant to patients than instruments introduced through the mouth The artificial nail, or nail shaped curette, fastened to the finger, I have never used I doubt whether the finger can find enough space for movement to do thorough work, and I do know from experience that the insertion of the finger is more disagreeable than that of any instrument My largest experience has been with ring shaped curettes, bent The organ which is principally imperiled by the at not quite a right angle, the ring being in the sag-There gital plane, which are rotated and pressed laterally ment which are not complicated some time or other ments are quite efficient, but must be inserted a num-Not rarely, there is ber of times in order to cut off all the projections

Since the appearance of Trautmann's work, I have plication of the tympanum beyond retraction of the mainly employed his curette, with fair satisfaction This trouble is probably due to dimin- It is the form of a round sharp spoon, 11, 13, or 15 ished patency of the Eustachian tube on account of millimetres in diameter, the shank of which is bent congestive swelling of the mucous membrane Be- at an angle of 150° about 3½ centimetres from its youd the removal of the enlarged gland there is end. The patient's head being suitably held, the scarcely any treatment required for the ear, although spoon is introduced behind the palate and forced upward along the posterior edge of the vomer, its cutting edge, being of course, directed towards the rear It is then pushed like a gouge backwards and downwards, and on withdrawal a fragment of the gland will be found in its concavity. It is at once reinserted a little more to one or the other side, and used again until the space feels clear as far as can be judged by sounding with the curette. If any remnants are left the operation is repeated after the traumatic congestion has passed off, that is, some five days later

All operations with curettes are followed by abun dant hæmorrhage, although this has never been alarm ing in my experience, in about 75 operations can always be checked by gargling with ice water, and will generally cease spontaneously inside of some five or eight minutes The operation is moderately As I have learned from older children and adults, cocaine does not relieve the pain materially, but swabbing the pharynx up to the vault with a 10 per cent solution of cocaine lessens the discomfort and retching produced by the instrument never yet used an anæsthetic, having always been able to persuade the children to submit, since the pain is of very short duration Hopmann, however, has reported 69 operations on anæsthetized children, without accident The entrance of blood into the laryny was prevented by not carrying the anæsthesia A drawback to all curette operations is the difficulty of finishing the operation in one sitting on account of the speedily exhausted patience of the sub-Sometimes four or five sittings are required to clear the naso-pharyngeal space

The operation has become much more elegant in my hands since I have had a pair of cutting forceps constructed on the principle employed by Loewenberg. This author's gouge forceps are so clumsy as to frighten patients, while the cutting end is too small to grasp much. Accordingly I have had a forceps constructed of a stout pair of scissor blades, the handles of which, about 15 centimetres long, are suitably bent so as not to obstruct the view. The



cutting end is a hollow triangle, base upwards, 17 millimetres high and 13 mm wide, which arises 3 cm from the scissor screw, sloping upwards and The cutting edge is the upper slightly backwards base which is slightly curved and slopes backwards so as to conform with the roof of the pharynx Small springs attached externally to the bent end prevent the fragments of tissue from falling into the larynx The instrument is inserted behind the palate, the spring between the handles being allowed to sep arate the blades as far as possible It is then pushed upward and closed, whereby everything pendant from the roof is snipped off as far as it gets into the grasp If the operator feels that the of the instrument

² Deutsche med Wochenschrift 1885 p 57² ³ Made by Sharp & Smith, 73 Randolph St, Chicago No unpleasant reaction has ever occurred in my experience There may be slight oozing of blood for a short while, but this has always been insignificant. The pain ceases within a few minutes. The wound causes often some congestion of the nasal mucous membrane, so that the nose is more stuffy during the first night after the operation, especially if remnants of the pharyngeal tumors are left behind. Rarely have I seen slight fever within the first twenty-four hours, and never longer than within this period.

Central Music Hall

ABDOMINAL SECTION FOR RUPTURED TYPHOID ULCER, AND FOR INTESTINAL OBSTRUCTION

BY R B BONTECOU, M D,

SURGEON TO THE MARSHALL INFIRMARY TROY NEW YORK

My attention having recently been called to an article on this subject in the *Medical News* of November 26, 1887, and also to another article in the same journal of December 24, 1887, by Prof Thos G Morton, of Philadelphia, I think it may be of interest to some to publish the following case, as I was not aware when I performed the operation that it had been done for that purpose

James Daley, æt 25 years, unmarried, of temperate habits, was taken sick at his boarding-house about October 1, 1887, and came under my care October 6, with high temperature, right iliac tenderness and gurgling, and with the other symptoms and general appearances of typhoid fever, which disease had been prevailing to some extent in the city He persisted in having on his clothes and sitting about the rooms for five days, trying to fight off the disease, but finally consented, as his lodgings were not suitable for a sick person, to go to the Marshall Infirmary, where I was His history, as given by the resident eon, is as follows James Daley, team house surgeon, is as follows ster, æt 25 years, admitted to the Marshall Infirmary on the evening of October 11, 1887, suffering from typhoid fever, with temperature of 102° tinued in apparently a comfortable condition, without complications, with temperature 102° mornings and 104° evenings, until the 15th inst, when he had a morning temperature of 104° and complained of On the 16th increased nausea and right iliac pain pain in the right iliac region and tympanitic condition of abdomen On 17th morning temperature 104°, hiccough and vomiting of prune-juice matter and bowels constipated and tympanitic, and still complaining of the abdominal pain, legs drawn up,

scissors have cut off the tumor, the blades are at once opened and applied in another position, if it is not completely detached, it is torn off by extracting the instrument and then reinserting it if necessary. With reasonable tolerance on the part of the patient, the operation can be readily finished in one sitting. The hæmorrhage is less than in curetting, and the entire operation does not last as long. I have never had any accident or unintentional wounding of parts, not even pinching of the palate, in the fifteen times I have used this new instrument.

cold, clammy perspiration, countenance pale and pinched and eyes sunken, was seen at noon by the attending surgeon, who diagnosed peritonitis from intestinal perforation

peritonitis from perforation, and stated the case fairly to him that he would certainly die, and to his question if anything could be done, replied that an operation, although offering very little hope, was the only thing left that could be done He consented As soon as the necessary preparations could be made he was anasthetized with ether and the section made under strict antiseptic rules in the median line On open ing the peritoneum a considerable quantity of flaky dark colored scrum escaped I at once went for the ileo crecal portion, and found perforating ulceration of the appendix near its base. I ligated this on the proximal side and removed it On further search I found an oval perforation in the ileum about ten inches from the colon and about one line in its long est diameter The intestine was apparently sound in the vicinity and elsewhere, but deeply injected and rather dusky in color No other perforation could be found I turned in longitudinally the portion of intestine including the perforation, and sutured its peritoneal surfaces by Lembert sutures and, after cleansing the abdominal cavity with a weak bichlo ride solution, closed the wound The man expired before he had recovered from the anæsthetic led to perform the operation on general principles, as the only thing to be done where intestinal perfora tion is recognized, appreciating the fact that it is a mortal accident, and that with the light and aid of antiseptics I have the faith and hope yet to save some case of the kind The operation cannot im pair the condition, and if the accident is recognized soon after its occurrence, there is a chance of suc Unfortunately, in this case, forty eight hours had elapsed after the first perforation Drs Lomax, W W Seymour, H Gordinier and N F Martin kindly assisted me in the operation

Note —The condition of the patient in this case was such that time was an important element in the operation, otherwise I should have practiced what I have before intended in cases of perforation of the appendix, and that is, after cutting off the process on the proximal side of the perforation, to invaginate the cut extremity and sew the peritoneal surface to gether with a close continued suture, thereby hoping to get a more reliable union of the parts than might obtain if the process was simply embraced in a ligature with the mucous surfaces in apposition

Abdominal Section for Intestinal Obstruction - Jas of temperate habits, ate baked beans on Monday, November 28, which made him sick, gave rise to colic that night, and had no passage from his bowels since 24th or 25th of November, but continued in pain of a paroxysmal nature which required large anodynes to mitigate He came under my care De cember 1, found him in bed suffering great pain, rethat could be relieved he would be all right I could

principles with poultices and anodynes of morphia and belladonna, and used large injections in the knee chest position which washed the whole colon out clean, and very little feculence was noticed I found him in collapse, with every indication of stomach tube was kept in place in the descending colon to permit flatus to escape His belly was at no time tympanitic, but was everywhere dull on percussion except in the track of the colon satisfied me that the small intestines were all full of frees which it was impossible to move, and that the obstruction was in the lower part of the ileum cember 7, his condition as to vitality being good, pulse 80, temp 99°, and unmistakable stercoraceous vomiting occurring, I obtained his consent to an operation, and at 9 o'clock in the evening, assisted by Drs Gordinier and W W Seymour and I W Morris, I made the operation with strict antiseptic precautions and, with a median incision of four or five inches, went at once for the ileo cæcal region and found the ileum tightly incarcerated under a diverticulum of the omentum about eight inches from the colon I put two ligatures on the band which formed the constriction and cut between them, liberating the gut, which presented when released, the appearance of an ivory ring about it, the constriction had been This was accomplished in nine minutes so tight from the commencement of the abdominal incision, some manipulations to coax the contents through the strictured gut occupied a few minutes more, and the wound was then closed by Dr W W Seymour, who used for the first time a very good mounted needle invented by him for the purpose of abdominal sutures Dry 10doform dressings were used and a broad bandage of adhesive plaster, completely encircling the abdomen and hips, such as I am accustomed to use for separation of the symphysis pubis after delivery, kept his parts comfortable and secure, and he at no time since betrayed any abnormal temperature or pulse He was from December 25 to 29 troubled with diarrhea, but is now well and dressed, and would be on the street were it not for the unusually cold weather (January 1, 1888)

Abdominal Section for Intestinal Obstruction -Mr Wheeler, æt 77, widower, retired merchant, of temperate habits and large physique, had been suffering obstruction for one week, and when called in consultation with Drs W H Hall and A Hewett found him vomiting stercoraceous matter, and was in a condition of collapse, with pasty skin The case was stated to him that he was dying and that nothing further could be done but an operation, to which he consented, and as soon as preparations could be made he walked from his bed to the dining room, E Evans, unmarried, et 24, occupation moulder and where a table had been prepared under the chandeher, and after ether and every antiseptic precaution had been taken the operation was done through a very adipose wall and the intestines all found quite empty, with no tendency to protrude I searched the ileo cæcal region first, and not finding any trouble there, ran the small intestine through my fingers until I reached close to the duodenum, and there found the ferred to the pit of the stomach, and he thought if loop, some inches in extent, closely strangulated, it was, however, easily released, and the abdomen make out no tumor there, and treated him on general cleaned and closed He was put to bed, had several

movements from his bowels, but never rallied from the collapse in which I found him I think he would have recovered if operated on a day or two earlier

Abdominal Section for Intestinal Obstruction -Kehn, æt 50, married, occupation pork butcher, in temperate, had obstruction several days, and when I was called in consultation, April 4, 1885, was in collapse and dying, having had stercoraceous vomiting The statement was made twenty four hours or more that nothing could save him but operation, and that that was doubtful, preparations were hastily made, and within half an hour I made the section through a fat abdominal wall and at once went for the ileo caecal region, which was found all right The constriction was found by a little further searching, in the lower third of ileum, and was easily relieved by gentle manipulation with the fingers The operation was made at 12 30 PM, and he did not rally from the collapse we found him in, and died at 3 P M the same Drs M H Burton, whose patient he was, and Drs Akın and Morris assisted me An operation a few hours earlier in this case would probably have portion contiguous to the gall bladder, and was insaved him

Abdominal Section for Supposed Perforation of the Appendia -- Mrs O, æt 45 years, a widow, in good health up to May 25, 1887, when she was seized with severe pain in the lower part of the abdomen, with great tenderness in the right iliac region and a bloated feeling all over the belly She applied poultices, took castor-oil, which operated, and kept her bed until May 29, when I was called and found her with tem perature 102° and pulse 115, abdomen tumid and very sensitive all over, but especially so in the right She maintained the dorsal decubitus iliac region Satisfying myself by digital ex with limbs flexed amination per vaginam and from her history that there was no hæmatocele, I concluded that there was peritonitis from intestinal perforation, probably of the It was difficult to learn by palpation the exact condition on account of the great sensitiveness, but manifest dulness all over the right iliac region and a faint sign of fluctuation seemed to indicate lo calized peritonitis with suppuration, and this was ver ified by aspiration May 31, when I proceeded, with the assistance of Drs W W Seymour and H Gor dinier, to cut down between the anterior spine of ileum and umbilicus, and getting through the abdom inal wall with an incision four or five inches in length, came upon a collection of pus mingled with fæces The pus cavity extended down into the pelvis, but appeared to be walled in by the adherent intestines on its upper and inner border, in fact, the parts all around were so infiltrated and matted together that I was unable to find (without unwarranted disturbance) the source of the feculence, and contented myself by cleansing the cavity and closing the wound over a rubber tube of large calibre The fever declined at once and in a few days disappeared altogether dramage tube was kept in place three weeks and the cavity washed out through it several times daily Feculence ceased to escape from the tube in ten days, and in one month she was able to walk a little, death taking place forty eight hours after the operaalthough she could not stand erect on account of in- tion There was no history or appearance of injury, testiual adhesions to the abdominal wall

els were moved with difficulty from the same probable September 20, 1887, an abscess made its appearance on the site of the abdominal wound, but healed in a few days after discharging its contents, The woman has which appeared to be simply pus since that time remained well and active

Abdominal Section for Obstruction of Bowels -Mrs R, at 52 years, mother of several children, was in ordinary good health up to November 25, 1877, when I saw her in consultation with her attending physician, Dr H C Murphy There had been complete obstruction of the bowels for twelve days On the 26th, 27th and 28th every means we could devise failed to relieve the obstruction, but the patient would not consent to an operation until Nov 30, when stercoraceous vomiting occurred and, the patient consenting, I opened the abdomen by a free median incision of the segment. In the lower segment there was great distersion of small intestine and ascending colon, and also a great engorgement of their The obstruction was readily found at the cluded in a scirrhous mass involving a portion of the Presuming this to be malignant, I did not attempt its removal, but brought the caput coli to the inferior angle of the wound and stitched a portion to the integument large enough to allow of a free opening being made in the gut and kept patent profuse discharge of fæces escaped at once through the artificial opening made, and continued until her death twenty-four hours later There did not appear to be any peritonitis, she was feeling well four hours before her death, when she accidentally discovered with her fingers the large pins which held the abdominal wound together, and she fainted and did not rally from the syncope or shock Antiseptic precautions were not used in this case

Explorative Abdominal Section -Mr M, et 74 years, a healthy, active man, was in his usual health up to thirty six hours before I saw him in consultation with Dr M H Burton, his attending physician, and with Drs W Akin, J W Morris, H Gordinier and Sabin, July 31, 1885 He was suffering great pain, and his position and rational and physical signs indicated peritonitis from perforation Bowels con stipated, abdominal walls haid and tympanitic, pulse frequent and feeble, and general indications of approaching collapse I made median section in the lower segment at noon July 31, and at once went for the ileo cæcal region, expecting to find perforation None, however, was found either in it, or the colon, or small intestine, or gall bladder. Turbid serum escaped in considerable quantity when the peritoneum was opened, and the intestines and reflected parietal peritoneum showed acute peritoni-The abdomen was washed out with a weak car bolic solution and the wound closed, leaving in its lower angle a drainage tube dipping down into the bottom of the pelvis, through which his abdominal cavity was irrigated with a weak solution of chlori-The peritonitis, however, continued, nated soda Her bow- and the cause of the fatal peritonitis is conjectural

Case 2 illustrates the advantage of early operative stage is by the administration of a purgative, I gave interference while the vital forces are good, for notwithstanding the serious character of the strangulation in that case, he made rapid and uninterrupted recovery, whereas in cases 3 and 4, the obstruction plapine, and a little ginger The patient had frewas from adhesions that were comparatively slight, quently used similar pills, prescribed by her own so that they were relieved by gentle manipulation, and jet the cases proved fatal, because operative interference was deferred until collapse was an Case I was in an almost hopeless condi tion when seen by me If I had operated on him on the 15th inst he would have had a fair chance of I hope soon to read of some one doing this successfully for typhoid intestinal perforation If you are sure that perforation has taken place, do not hesitate, for the operation cannot impair, but certainly improves the chances of recovery

MEDICAL PROGRESS.

ADVANTAGES AND RISKS OF PURGATION DURING CONVALESCENCE FROM ABDOMINAL SECTION -MR JOHN D MALCOLM records an interesting case bear ing on this subject. The patient, a woman, æt 57 years, had had an ovarian tumor removed On the evening of the third day, and all through the fourth day, there was a tendency to sickness and abdominal distension, but flatus passed freely from the rectum On the fifth day that portion of the bowel was found to contain feces, and a small enema produced a copious evacuation, after which the feeling of sick-The action of ness and the distension passed off the bowels was followed by considerable pain in the right groin about the position of the pedicle, and the temperature rose in a few hours to 100° in the axilla, but again gradually fell to 98° on the seventh day The bowels moved seven times beafter operation tween the fifth and tenth days, and much flatus also During this time, however, the pain in the right groin increased, until the patient could not bear the slightest pressure over this part The rest of the abdomen became slightly distended, but was free from tenderness The administration of $\frac{1}{60}$ of a grain of atropia and Tz of a grain of muriate of morphia, repeated every four hours, eased the pain, but the appetite became very bad, and the patient felt constantly sick after the eighth day She also lost strength, and her pulse, which had been down to 84 and of good character, gradually rose to 100, and became very feeble On the tenth day her temperature, which had not been above 98 6° for two days, also began to rise a little, and reached 99 6° in the axilla at 9 30 AM, she had been very restless all night, could not take any food, and felt very sick, while the abdomen had become more distended This grouping of symptoms after abdominal section I have learned to associate with obstruction in the bowels, which may lead to a rapidly fatal termination In the belief therefore that my patient of the case was in extreme danger from this cause, and that the best method of treatment of this condition at this real Society the Lancet Oct 29 p 860

her a pill containing 1/3 of a grain of calomel and as much jalap, a grain of compound extract of colocynth, I grain of extract of aloes, 10 of a grain of medical attendant, Dr Morley, of Blackburn, and they had moved the bowels gently during health On this occasion the pill produced two small loose motions, and a dose of Hunyadi water, given next morning, was followed by other loose motions last of these was at 5 PM on the seventh day after operation Twelve hours after the pill was given the temperature had risen to 100 6° in the axilla, perspiration was extremely profuse, and the patient had become alarmingly weak, but she was then able to take food without feeling sick After the bowels were quiet 20 minims of tincture of opium were given by the rectum, and the patient had a good night's rest She was much stronger next morning, and this improvement continued pain in the right groin, however, became more severe, and the tenderness radiated over the abdomen to some distance from this part The temperature continued feverish but irregular until the thirteenth day, when it fell to normal and remained so this day also the pain shifted upwards and towards the right loin, and next morning there was only slight tenderness on pressure in the groin, and none in the Now, however, the patient at once complained of pain when I applied pressure over the colon in the region of the gall bladder The seat of tenderness afterwards shifted from time to time along the course of the colon, and finally was found low down in the left groin, on the fifteenth day after the opera-The bowels had then been quiet for four days and I warned the patient that she would probably soon have an action of the bowels with considerable That afternoon several large, very hard fæcal masses passed into the rectum, whence they were removed with some difficulty by the nurse, after which recovery was uninterrupted

This case is very instructive in connection with the question of the administration of purgatives during convalescence from operations for abdominal It is evident that the masses of fæces which were removed on the fifteenth day after operation were the cause of all the difficulty and danger in this case, by producing a partial obstruction in the bowel The fæcal accumulation had been impacted in or near the cæcum, and the efforts of the bowel were insufficient to remove it, probably on account of the condition of paresis of the intestines which I have shown follows abdominal section, and is "an important factor in the production of obstruction of the bowels in these cases "1 When, however, the impacted mass was dislodged by the aid of the purgative medicine, the sickness and distension at once disappeared At the same time the temperature of the patient rose distinctly, and this in spite of a most profuse perspiration, pain in the groin became more severe and diffuse, and the patient's strength failed

purgation relieved a partial obstruction in the bowel, Morell Mackenzie observed that a patient after exbut at the same time increased, or rather renewed, tirpation of the larynx was usually in a condition "of the inflammation in and around the pedicle Many great misery" Professor Lefferts, of New York, cases have taught me that this is the way in which stated that the "main reason for the patient's subsepurgation may be beneficial during peritonitis after quent discomfort, not unusual, however, in like abdominal section may therefore be necessary, and proper treatment, | fect in the neck, by any form of artificial apparatus, but it is inaccurate to say that the purgation cures so as to permit of perfect deglutition" Since 1881, the peritonitis recognized that the administration of a purgative in such cases is resorted to at the risk of increasing the Still the frequency of fatal lung complications above severity of any inflammation implicating the wall of recorded is suspicious the gut, and in severe constipation, even when there remedied, more or less, by the use of an artificial has been no recent inflammation, a smart purge may produce a great deal of inflammatory action in and around peritoneal adhesions — Lancet, Dec 24, 1887

Partial Excision of the Larynx —The follow ing are the results of partial excision up to the pres-In twelve cases, where half the larynx was removed—in ten cases for carcinoma, in two for sarcoma—only one patient died from the direct removal is not very unsatisfactory, provided that the effects of the operation dress and the patient's condition less desperate than when the entire larynx is excised larynx has been completely, and in two partially, removed for sarcoma The after-history of one of plete excision for carcinoma, it is highly unsatisthe complete operations is lost, of the remaining six factory. As a rule, it appears to mean death, as it appears that one was quite well and free from recurrence six years after operation, one was well two years after, one died of phthisis a year and a half complications Truly a patient under such condiafter excision of the larynx, without a sign of recurrence of the local disease, one died of recurrence of the sarcoma seven months after operation, and one that none but fools would keep "-British Medical fifteen months after In the two recorded cases of Journal, Nov 19, 1887 partial excision for sarcoma, one was free from re currence "some time after the operation," one died ten months after from pulmonary complication, with Of the thirty out recurrence of the new growth five cases of excision for carcinoma which recovered from the operation (excision, as above noted, proved directly fatal to thirty patients), twenty died within a few months from recurrence Of the remaining fifteen, the history of one case is lost, two died of pneumonia at the end of three and four months respectively, seven cases were yet alive when these statistics were prepared, and free from recurrence at ease is absent in this affection, and most of the paperiods ranging from fourteen months to four years Thus only one patient could be considered cured Out of seven partial excisions of the larynx for cancer, one died of the operation, three died of recurrence within seventeen months, and in the three which remain there was no recurrence, but only four teen months had elapsed in one of these, eleven in another, and an unrecorded space of time in the It must be observed that many of the above cases appear to have been badly selected, the patient being in an unsatisfactory state of health, or the dis-Unfortunately, the survivors, ease much advanced not very numerous at the best, too often find but course of the day the amount of albumin in the urine little comfort in life after the operation Solis Cohen is subject to variations, which seems to follow cerremarked at the International Medical Congress in tain laws in every case, but are different in different London, in 1881, that recovery and mere survival cases

It is evident, then, that in this case after the operation are two different things, and Sir Purgation during peritonitis cases, was the impossibility of closing the large de-On the contrary, the fact must be cases have been noted where the patient's condition was not in any instance altogether unsatisfactory The loss of voice can be After partial operations the patient can often swallow easily within a few days, but after complete excision, with extensive removal of the surrounding parts, deglutition may be impossible without assistance, and the patient may need to be fed by means of a funnel and tube Altogether, excision of the larynx is a gloomy subject to con-For sarcoma, partial or even complete The wound is far easier to disease has not advanced too far Partial excision for carcinoma is also no desperate operation, but it has In six cases the not been performed with sufficient frequency to allow of a very decided verdict As to coman exception, it signifies a short but harrassed lease of life, with constant fear of recurrence and of lung tions may say of his life, like the Duke in Measure for Measure, "If I do lose thee, I do lose a thing

> CYCLICAL ALBUMINURIA — In his resume of an article on this subject in the Zeitschrift für klinische Medicin, Bd 12, Hft 1 and 2, G KLEMPERER, of Berlin, says

> Cyclical albuminuma is to be regarded as a well characterized type of disease It occurs most frequently in young people, and it seems that males are most subject to it Besides a somewhat anæmic and emaciated appearance there is no especially striking Every sign of Bright's dissymptom of the disease tients are nervous (neurasthenic) Their complaints are of an undefined nature pain in the head, weakness of the back, relaxation and uncomfortableness, want of energy, and indisposition to physical and Gastric troubles are often promimental exertion nent, such as loss of appetite, eructation after eating, and a feeling of fulness and distension symptom is the appearance of albumin in the urine, that is generally only accidentally discovered by an insurance or a military surgeon The entire absence of albumin in the night urine has been a common symptom in all the cases observed hitherto In Pavy's cases the albumin rose from roth

fell off to nothing again urine in these cases is free from albumin characteristic in these cases that the maximum peripheral vagi are in a normal state cases the maximum was noticed at 5 PM in the forenoon and one in the evening cyclus has been established it occurs, unless influenced by external cause, with great regularity The researches of Bull, Noorden, and Klemperer show that the time of taking food does not affect the time of appearance of the albumin But it seems certain that muscular movements have a great influence on cyclical albuminuma, for absolute rest will usually But muscular movements do stop it with certainty not always cause albuminuria in these cases, for in some of Noorden's cases as well as in Klemperer's case the urine remained free of albumin after long continued walking It seems also that prolonged and severe mental work may increase the albumin It seems, further, that good feeding has a good influ ence on the affection, and as the patient becomes more healthy and stronger the albumin diminishes The diagnosis can be made with certainty by a systematic examination of the urine for a few days, if the urine, not pathological in other respects, con tains no albumin early in the morning, and then has a regularly appearing amount of albumin once or twice during the day cycle, running from entire absence of albumin to a into the heart en masse maximum, and then failing off to nothing, having a Very characteristic is the lessening been reached of the albumin when the patient remains in bed dur ing a part of the day The neurasthenic symptoms often lead to an examination of the urine, and thus the true nature of the malady is determined history of the cases thus far reported shows that cyclical albuminuria follows a chronic course, but Pavy has seen two cases of spontaneous recovery It does not run over into renal disease, and is com patible with perfect health Some times it disappears entirely, while in other cases it persists for years without disturbing the general health The prog nosis is good. So far as treatment is concerned there is but little to be said. But it seems that a strengthening treatment, in which the anæmia and neurasthenia are made to disappear, will exert a wholesome effect in curing the albuminuria

Physiological Action of Arnica Montanum — DR H A HARE, of Philadelphia, says When a dose of from five to ten drops of the officinal fluid vein of a dog weighing from fifteen to twenty pounds, the pulse rate and arterial pressure are for a moment depressed, but in the course of from thirty seconds to a minute return to their normal position about five minutes however, the pulse beats become one third slower than they are normally, arterial

ing to the maximum very slowly, and then gradually the pneumogastric nerves be cut, the pulse instantly During the evenings the increases its rate considerably beyond the normal, It is though not to the point generally produced when the always occurs during the forenoon, but in Bull's ence was, however, more marked in some cases than In the in others We may therefore conclude that the case seen by Klemperer there were two maxima, one drug stimulates in small ordinary doses the vagal When the centre in the medulla, thereby producing a slow full pulse, and that it has an effect on the peripheral ends of the vagus, for the reason that when these nerves are cut, the pulse rate only increases somewhat That this failure of the pulse to become very rapid after vagal section is not due to cardiac depression, is proved by the strong pulse waves, and the increase in arterial pressure, rather than a fall

When a much larger dose (5 c c) is given to a dog of twenty pounds weight, the primary slowing does not take place, but in its stead the pulse becomes very rapid with a fall of arterial pressure, which, however, soon recovers itself, the pulse still remainirg rapid Under these circumstances it was found that galvanizing the vagus nerves, even for as long as one minute and a half, failed to produce any cardiac slowing, proving palsy of peripheral vagi, and this was also proved by the fact that when the vagi were cut and their peripheral ends stimulated by small doses, large doses immediately produced a rapid rate, but no more than a momentary fall of arterial pressure, lasting, perhaps, twenty seconds The variations follow a and due simply to the sudden entrance of the drug

Arnica therefore slows the pulse in ordinary medicsecond maximum after the second zero point has inal dose by stimulating the pneumogastrics both peripherally and centrically, increasing the fulness of each pulse wave, and also slightly the arterial press-That the increased arterial pressure is chiefly due to increased work done by the heart is strongly indicated by the fact that in none of the experiments was arterial pressure influenced to any extent, by any dose, except when an enormous amount (5 c c) was injected rapidly into the jugular vein, when there was for the space of from ten to fifteen seconds a fall in pressure very evidently due to momentary heart failure, as the pressure returned at once to normal as soon as the heart freed itself from the volume of the drug That the fluid extract used was pure I am confident since it was prepared by a reliable druggist especially for these experiments Boston Medical and Surgical Journal, Jan 12, 1888

RESECTION OF THE STERNUM FOR RETROSTERNAL ABSCESS -PRIVAT DOCENT J VON RUSTIZKY, of Kiew, reports the following interesting case in the Deutsche Zeitschrift fur Chirurgie, Bd 26, Hit 5 and 6 extract of armica root is injected into the jugular December 23, 1886, a man, æt 23 entered the city hospital He had always been healthy, and had never had syphilis On December 7, the third left molar tooth began to be painful, and soon there was In a swelling on the left lower jaw, which extended along the whole neck, and was most marked in the jugular fossa When he entered the hospital he pressure remaining unchanged, save that the pulse was so weak that he could not raise himself from the waves usually produced by inhibitory stimulation bed without assistance, pulse between 80 and 90, give it a greater range If under these conditions and evening temperature 38 5° to 39 7° C

right and left sides, at almost corresponding spots, the skin of the lower jaw were openings, and there defective and only partially covered the wound, the was another further under at the level of the upper part of the mediastinum was laid open, and thyroid cartilage, to the left of the larynx these openings flowed a considerable quantity of a brownish, bad smelling fluid, that streamed out on pressure and when the patient coughed Through the openings the finger could be carried easily under the surrounding skin, so that the denuded bone of the jaw and the pulsating vessels of the neck could The percussion sound of the anterior chestwall was dulled on both sides to the lower border of the third rib, over the sternum the dulness extended two or three fingers' breadth lower Over other portions of the chest the percussion sound was normal On auscultation of the upper portion of the thorax succussion was heard

On December 24, a median incision was made in the jugular fossa down to the sternum, and about half a litre of purulent fluid evacuated by the patient's coughing and by a low position of the upper part of the chest, so that the dull percuss on sound became tympanitic An elastic catheter passed 11 or 12 cm into the mediastenum, and the large pulsating vessels were easily felt with the finger cavity was washed out with a solution of salicylic acid, a thick drainage tube put in, and an iodoform dressing and a thick layer of sublimate gauze put on This was changed daily, and a solution of boric acid was used a few times The wounds of the neck were cleansed and dressed in the same way Under this hazel nut treatment the fever was kept down, the flow of pus became less, and the general condition much better But about the middle of January the patient began to complain of pains above the sternum and in the sterno-clavicular articulation, with severe chills and an evening temperature as high as 30° C of both sterno clavicular articulations was found, and less marked swelling, on both sides, of the sterno costal articulations of the first and second ribs The skin over the upper third of the sternum was red-Fluctuation was detected at the ends of the clavicles and of the first two ribs The outflow of that pus from the wound became greater, and the patient more emaciated

The second operation was performed on February The patient being completely narcotized, an incision was made through the skin and periosteum in the middle line of the sternum down to the ex tremity of the fifth rib, and another along the clavi-The periosteum was separated from the bone by means of a raspatorium, though some particles of The sternum was bone adhered to the periosteum impregnated with pus, and on the left side, at the second costosternal articulation, it was so thin that the removal of the periosteum here caused an opening through which, by means of a chisel, the manu- ment brium was separated on one side from the body of ulceration Kaposi, with reference to a case of the the sternum and on the other from the posterior pe-kind which he had published, proposed the name The manubrium was now raised, and lymphoderma perniciosa separated from the ribs and clavicles The posterior term which they have chosen — leukæmia cutis riosteal layer periosteal layer of the upper part of the sternum was They consider that this affection is distinct from bone removed by means of Luer's forceps Since French -London Medical Record, Dec 15, 1887

the posterior layer of sternal periosteum was very From the pulsation of the great vessels was distinctly seen There was slight hæmorrhage from a cutaneous vein, but it was checked with torsion pinchettes granulations (membrana pyogenica) were scraped out with the sharp spoon, the horizontal incision united by continuous suture, and the whole wound filled—after being douched with salicylic solutionwith iodoform gauze and covered with sublimate The patient was shown at Society of Physicians of Kiew on March 27 At that time he was well, and had no circulatory or respiratory disturbance, though the thorax was considerably retracted The shoulders were nearer together, and the sternal ends of the clavicles and the ribs almost touched The sternal defect was closed by a firm cicatrix After the operation the first and third left molars and a sequestrum of the lower jaw were removed

Louremia Cutis — Hochsinger and Schiff (Viertelj fur Derm und Siph, 1887, 3, Heft) add another to the few cases already published, in which the skin was the seat of lymphomata A child, 8 months old, badly nourished, and with great pallor of the skin and mucous membranes, had over the whole body, but particularly on the skin of the face and head, numerous nodular, flattened, rounded seats of infiltration of the size of a pin's head to a They were movable with the skin over the subcutaneous tissue, were firm, of a yellowish-1ed color, and not tender Some of them were depressed in the centre There was slight desquamation over some of them, but they were neither excoriated nor ulcerated. The sub maxillary, cervical, axillary, and inguinal glands were hard and The spleen and liver were enlarged, and swoolen there was a moderate amount of ascites corpuscles of the blood were proportionately in-A histological investigation was made, and creased as the result of the investigation the authors state In the course of leukæmia the cutis, as well as the internal organs, may be the seat of secondary leukæmic lymphomata 2 The lymphatic infiltration begins in the blood-vessels which surround the sweat glands 3 The fat lobules lying immediately under the cutis are the chief seat of the disease, the upper strata of the corium being relatively free 4 The external manifestation of leukæmic infiltration of the skin is that of a small nodular affection of the cutis, which usually appears after leukæmic affection of the lymphatic glands At the same time a previous condition of chronic inflammation of the skin, if accompanied with stasis of the lymph, may lead to diffuse and early affection of the integu-The nodules show little tendency to 5 The authors prefer the then separated from the bone, and this part of the mycosis fungoides or lymphodermie cutanée of the

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SATURDAY, JANUARY 28, 1888

MEDICAL LEGISLATION

The necessity for greater uniformity in the laws of the several States intended for the regulation of med ical education and practice, is becoming annually more apparent During the last ten years several States have followed the example set by the Legislature of Illinois, and enacted laws creating State medical boards authorized to grant the license to practice medicine in all its departments, to such persons as should present a diploma from a legally established medical college in good standing, without further examination In Illinois, Indiana, Michigan, Iowa, and perhaps some other States, the verification of the diplomas and the standing of the college granting it, was left to the judgment of the State boards But two or three years since the Legislature of the State of Pennsylvania enacted a law creating a State Board and authorized it to grant licenses to practice on the presentation of a diploma from any one of the legally established medical colleges of that State, while all persons presenting diplomas granted by medical colleges located outside of Pennsylvania, were required to go before the Faculty of some one of the medical colleges in that State for the verification and endorsement of such diploma, before the State Medical Board could issue to them a license to practice In plain terms, the graduate of the Medical School of Harvard, or of the Medical Department of the University of New York, or of the University of Virginia, or of any other medical school in this or other countries, outside of the Commonwealth of Pennsylvania, must fee a medical col-

before he enters upon the practice of his profession in that State Of course such a law could not long exist in one State without bearing fruit Hence we find in a law enacted by the Legislature of the State of New York, bearing date June 23, 1887, the following provision "Graduates of American colleges outside of the State of New York, and those holding licenses to practice from European governments, must have their diplomas or licenses endorsed by the Faculty of an incorporated medical college in this State (New York), or by the Regents of the University, on the recommendation of a legally constituted Board of Medical Examiners in New York endorser may require applicants to verify their statements under oath, and any endorsement made fraudulently, with gross carelessness or ignorance, is a misdemeanor, punishable by fine " While the law does not so state, it is understood that the applicant for an endorsement of his diploma will be charged \$25 by the endorsing college On the other hand, the laws of Alabama, North Carolina, Virginia, and Minnesota, have established in each of those States a State Board of Medical Examiners, and require all persons proposing to commence or to continue practicing medicine in those States to be actually examined in all the branches of medicine by such examining board, without regard to any medical college diplomas whatever, and to receive a license, provided the results of the examinations prove satisfactory to the Board Sec 3 of the Minnesota law, that was quoted in The Journal for January 7, 1888, not only requires "All persons hereafter commencing the practice of medicine and surgery in any of its branches" in that State to submit to a thorough examination by the State Board and receive a license, but they must "present evidence of attendance on three courses of lectures of six months each" If the first two lines of this Section are to be construed literally, and apply to all practitioners coming from other States as well as to young men just entering upon practice, as claimed recently by a correspondent in that State, the last clause just quoted makes it very nearly a prohibitory statute against any of the older practitioners educated in this country, from entering upon the practice of their profession in that State, simply for the reason that prior to the last two decades there were very few medical colleges in this country giving annual courses of lectures of six months' duration If the current methods and tendencies of medical legislation by the several States should continue, it will soon become as expensive and quite as vexatious for a practitioner to change lege in the latter State for a verification of his diploma his residence from one State to another and continue

his practice in this country, as it is for the traveller of capital punishment, and asking for suggestions in to get himself and baggage through half of the custom-houses of Europe Sec 3 of the Minnesota law, with two or three additions as we indicated in THE JOURNAL of the 7th inst, is an excellent provision to be applied to all persons just proposing to enter upon the active duties of the profession the facts we have mentioned above show very clearly that the profession of the whole country cannot too soon enter upon an active and persistent effort to procure more harmonious and efficient laws for the regulation of medical education and practice in all the States And much interest will be felt in the report of the committee appointed on that subject which is expected at the coming meeting of the American Medical Association in Cincinnati

HUMANITY IN THE DEATH SENTENCE

It is now about a year since a State Commission was appointed in New York, to investigate and report on the most humane and practical method of carrying into effect the sentence of death Commission, of which MR ELBRIDGE T GERRY, President of the New York Society for the Prevention of Cruelty to Children, was chairman, has completed its work and has just presented to the State Legislature its report, a pamphlet of almost a hundred pages, that bears witness to the commendable zeal and industry of the Commissioners methods now in use among civilized peoples for executing criminals not one can be called humane and The principal devices for this purpose are the guillotine, the garrote, and the gallows first two are practical but not humane, while the gallows is neither humane nor practical

Inasmuch as it has been pretty thoroughly shown by experiment in several States, that there is no sub stitute for capital punishment, the deterrent effect of which is so great, it is a matter of no little importance that that punishment should be so inflicted as to do away with the objections that have been raised by sensitive and humane persons against the methods now in vogue In doing their work the Commission seems to have been guided by the intention, as it has been expressed, of keeping the terrors and doing away with the horrors of the death penalty, and all the changes it suggests in the law have this When it was appointed it laid out a end in view system of work that provided for the practical exhaustion of the subject A circular was sent out, especially to judges, district attorneys, sheriffs, and physicians, soliciting views upon the present mode

regard to some more humane method than hanging, opinions being especially solicited in regard to electricity, prussic acid or other poison, the guillotine, and the garrote About two hundred replies were received, and after a careful consideration of these, and much outside inquiry and study, the Commission decided in favor of electricity, and forfeiture of the body as well as of the life of the executed criminal

In order to make the whole matter more intelligible, the report contains an account of the various methods of punishment employed since the Mosaic era, and the essential conclusion arrived at from this data, is that undue or peculiar severity in the mode of inflicting the death penalty, does not operate to lessen the occurrence of capital offenses the present methods the guillotine is regarded as too bloody, the garrote as too barbarous, and shooting as too uncertain and revolting except in military ev-Hanging is condemned for several reaecutions the possibility of resuscitation, the revolting scenes at bungled hangings, and the public feeling against the hanging of women The Commission believes that if instantaneous and painless death could be assured, not one of these objections could be urged against the death penalty

The Commission is satisfied that the electricity will fulfil the desired end, because medical and scientific authorities are almost entirely agreed as to its efficacy for the purpose Resuscitation after the passage of a strong electric current through the nerve centres would be impossible, and death would be instantaneous and painless

It is proposed that the criminal to be executed shall be placed in a chair having metallic head and foot rests connected with electrodes If the current be supplied from electric light wires the connection A separate wire from an could be easily made electric light plant would cost \$250 to \$500, and the chair \$50, while the cost of maintenance and opera-It is recommended tion would be merely nominal that electric appliances be placed in the State prisons at Sing Sing, Auburn, and Dannemora, and that all executions be made at one of these places In this way the prompt and efficient carrying out of the death sentence would be secured in all cases, while under the present system, by which each county hangs its own criminals, an entirely inexperienced sheriff is often called upon to superintend an execution, and the risk of bungling or failure is in creased if the duty be revolting or novel to him

The Commission expresses very positive convic-

tions in regard to the time of execution and the disposition of the body of a criminal In its opinion the prisoner should be doomed from the hour of his sentence, kept in solitary confinement, and executed without publicity on a day to be set by the prison warden, the time not to be less than four weeks and not more than eight weeks after sentence death the body should not be paraded like that of a hero, but should belong to the authorities for dissection or destruction, or if given to the family, the law should forbid the exhibition of it Criminals, it is held, meet death with bravado when they contemplate elaborate descriptions of their execution in the public papers, and ostentatious funerals afterwards, and the effect of all this is to lessen the horrors of crime and of the death penalty other hand, it would seem that by shutting a con demned criminal from the world at the time of his sentence, leaving him to the sternness of the law, with the knowledge that punishment was inevitable, capital crimes would become fewer sion suggests that the present laws be so modified that the changes may go into effect by January 1, 1889

THE SURGICAL TREATMENT OF PERFORATION PERITONITIS

In connection with the paper of Dr Bontecou, in this issue of The Journal, may be mentioned a case published by Lucke, of Strassburg, in the Deutsche Zeitschrift fur Chirurgie, of November 30, 1887 (Bd 26, Hft 5 and 6) The case was one in which the patient began to collapse suddenly after drinking a glass of cold beer Kussmaul advised an operation, and it was done by Lucke at 8 P M The spray was used for a quarter of an hour before the operation, warm sublimate compresses being placed on the ab Dimethylacetal chloroform was the anæsthetic used, Lucke preferring this in all operations on the abdomen The abdomen became somewhat relaxed under the anæsthetic, and a somewhat increased resistance was found on the right side, though there was no dulness The incision was made in the median line below the navel, and when the perito neum was opened a quantity of pus, mixed with flocculi of lymph, but containing no fæces, and a small quantity of gas, escaped The portion of intestine that pressed up into the wound was markedly in jected, distended, and here and there covered with fibrin flocculi, easily washed off A fenestrated drainage tube carried into Douglas' sac drew off a quantity

about 500 ccm The ileo cæcal region and the appendix were found free from perforation foration was found anywhere This operation was performed on April 24, 1887, and on June 17 the patient got up, having no fever, but with localized tympanites in the region of the liver Kussmaul and Lucke agreed in the diagnosis that the perforation had taken place through a small ulcer, by which only a minimal amount of intestinal contents escaped and set up an acute purulent peritonitis The site of the perforation was probably in a portion of the intestine in the right hypochondrium, and the perforation soon closed, but a localized peritonitis of slow development was set up, which afterwards caused pain and tympanitis On June 22 the patient complained of renewed pain, and other symptoms followed rapidly Soon there was dulness for 3 or 4 inches below the free border of the ribs, upwards to the fifth rib, and reaching to the middle line The pulse was 110-118, pains in the hepatic region, and appetite less June 28 the temperature went up to 389, on the next day respiration was distressed, the dulness was as high as the fourth rib, and puncture under the border of the ribs gave pus On June 30 an incision 5 cm long was made parallel with the free border of the ribs on the right side, and about 3,000 ccm of pus evacuated Through the wound the upper diaphragmatic surface of the liver could be felt, above the costal pleura, and below the finger passed through an opening towards the abdomen, and by pressure with the other hand a quantity of pus was evacuated A large drainage-tube was put in, and the wound dressed with iodoform gauze It is most probable that a sacculated peritonitis had been set up on the right side, the starting point being the seat of the former peritonitis, had penetrated the diaphragm, and ruptured into the pleural cavity The drainagetube was thrown out, and the wound caused so much trouble that on July 18 1t was enlarged, a portion of the seventh rib was resected, and a large quantity of pus escaped From this time the patient went on to recovery

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That there was perforation in this case there is no in many ways, in which abscess formed and death But had the case come under the care of some that believe that Nature can set a broken bone, or put a Lembert's suture in an intestine perforation, or scrape out a tuberculous abscess cavity, there would have been a labored argument, in the notes on the autopsy, to show that there was no perforation. and that an operation could have done no good The difference between Lucke's case and one of more extensive perforation is great, but it is one the profuse menorrhagia that had been present for rather of degree than of kind

SOCIETY PROCEEDINGS.

GYNÆCOLOGICAL SOCIETY OF BOSTON

Stated Meeting, September 17, 1887

VICE PRESIDENT, H C WHITE, M D, IN THE CHAIR

Dr. Mary E Bates reported a case of

UTERINE FIBROMA WITH PELVIC CELLULITIS

A widow, 46 years old, slim and anæmic the mother of one child, had been subject to menor rhagia for several years At intervals she had had attacks of pain in the right inguinal region which subject continued several days and in one instance a week Physical examination revealed a tumor as large as a that Dr Ephriam Cutter was not present, as he had hen's egg, a movable uterus, absence of metritis and the difficult passage of a sound Diagnosis Interstitial fibroid at the right side of the fundus days later the patient was taken with pain, nausea, profuse diaphoresis and anorexia Diagnosis peri tonitis Problematical and eligible causes the pres ence of the tumor, the menstrual period, unusual physical exercise and the difficult passage of the sound Improvement came on and a month later menstruation with the same symptoms again recurred Physical examination then showed the uterus fixed in an oblique position, the bladder pushed to one side, the abdomen hyperesthetic, the inguinal glands enlarged and tender and a "bunch" in the left inguinal After the menstruation ceased fluctuation There was a appeared in the left inguinal region rise of temperature but no definite chill Diarrhœa occurred in the place of constipation, the fluctuation and bunch in the inguinal region disappeared and Considerable drug pus was discharged from the vagina improvement has since taken place

DR H O MARCY said that he had seen the patient in consultation and had agreed with Dr Bates in the diagnosis He was at that time fully satisfied from the history of the case that pelvic abscess was to be expected

several years ago which resembled the one reported at present the patient has passed the menopause

resulted from exhaustion He thought that ergot or ergotin might be of use In 4000 cases under the observation of Prof Nelson 256 derived benefit from Dr Nelson believes that failure the use of ergot may be expected in subperitoneal cases but that the best results from the use of ergot are secured in the submucous tumors Dr Apostoli has showed that the diminution in size of fibroids after electrolysis is due to shock

DR BATTS, in reply to various questions, said that several years first led her to suspect a myoma At first she had made no measurements as no tumor was Dr Bates knew nothing so liable to suspected cause the abscess as the tumor itself, though the patient attributed it to the passage of the sound Ergot had been tried in this case

DR A L Norris said he had been much interested in the valuable paper of Dr Bates He remem bered a case of the kind complicated with peritonitis and multiple abscesses when there was great exhaustion and a fatal termination The patient was 32 years old and had never borne children although she had had several miscarriages with subsequent debility and chronic induration He said he had used ergot in both submucous and interstitial fibromata several In two cases it was attended with marked success, not only controlling hamorrhage but ablating perceptibly the growth, which after five months ceased to cause trouble The lack of time prevented him from reviewing data, otherwise he could have narrated more cases of interest bearing upon this

DR W Symington Brown said that he regretted originated the treatment of fibroids by electrolysis in 1870 and had demonstrated the decomposition of raw Dr Cutter beef and a fibroid tumor by electricity operated upon an extensive fibroid in a patient at Stoneham, Mass, after which operation the tumor diminished to one-half its original size and the patient was restored to health Dr Cutter uses a battery of six large cells which he prefers to a large number of small cells He has cured eighteen or nineteen cases, six of which are known to Dr Brown Dr Brown believed that many tumors called fibroids are not fibroids, but hæmatoceles He considered laparotomy the true treatment for fibroids If the patient is comfortable no operation should be done, but in a case like that of Dr Bates laparotomy should be performed to relieve the flooding Dr Brown had treated two cases successfully with Squibbs' ext ergot, fl

DR F L Burr believed that many failures in the use of ergot were due to the poor quality of that drug He has sometimes used it by saturating cot-

ton and applying it to the vagina

Dr H C WHITE considered the mouth the best and most natural way to give ergot He has at present a case of fibroid where the patient measures 48 inches about the umbilious and the tumor is supposed be expected

DR A P CLARKE said that he had had a case advised removal Ergot controlled the flooding and Stated Meeting, October 13, 1887

DR WILLIAM G WHIFLIE IN THE CHAIR DR A P CIAKKI read a paper entitled,

A CASE IN WHICH ABORTION WAS INDUCED TO REI II VL UNCONTROLLABLE VOMITING OF PRECNANCY

(See p 40, Journal of Junuary 14, 1888) DR J F FRISHIF described a case that had fallen under his observation A young Prince Edward's Island woman became pregnant soon after marriage and suffered from severe nausea and vomiting for six weeks, at the end of which time vomiting was checked Pregnancy went to full term and a healthy child was born which died some months later The following soon appeared which defied all measures for its relief The mother was reduced to a skeleton and was con fined at eight and a half months The child weighed at the fifth month of pregnancy but 4 pounds and consisted of but little more than skin and bones The mother lived but has never Dr Frisbie was of the opinion been well since that the interests of both child and mother might have been best subserved by the induction of abortion at an early period in the pregnancy

DR CLARKE in reply to Dr Mary Bates as to the urine was heavily loaded with urates

DR BATES described a case of a patient who sought her advice for chronic metritis there were no casts in her urine She subsequently became pregnant and passed out of Dr Bates' care consultation, and found that she had been ill for seven months, and had been vomiting constantly for four weeks The patient was evidently in a critical condition and Dr B advised the induction of abor tion, but this advice was not accepted by the attend In one hour convulsions set in and death oc curred at the end of three hours The urine was found to be one half alhumen and to contain abundant old casts At the autopsy urea was found in the stomach, it had also been deposited in the cere Dr Bates wished to ask the opinion of the members of the Society as to what would have been the proper course of treatment in this case, whether it would have been best to have given pilocarpine and used active means to relieve the kidneys, or to have at once induced abortion?

DR L F WARNER said that he did not regard the cases described by Dr Bates and Dr Clarke as at all The vomiting in Dr Bates' case was probably uremic in its nature and not what is usually known as the vomiting of pregnancy It was not the direct result of the pregnancy but was one of the indirect effects of that condition, probably pres sure on the kidneys or on the blood vessels belonging In such a case there are other and better abortion

DR I W STARBIRD, in referring to the case de

by assisting in the elimination of the urea which was causing the trouble. The use of the steam bath and active cathartics are the best and quickest means of accomplishing that end If these measures fail premature delivery should be resorted to

DR C W Sievens mentioned a case that had been under his care recently. The patient was a lady of 37 years, and married for the second time had been pregnant three months, during the last six weeks of which time vomiting had been excessive She was confined to the bed and fainting followed any effort to rise Her prostration was extreme The induction of abortion was decided on as a last resort, and it was accomplished by the use of a bougie A fœtus 3 or 4 inches long was expelled, no year the mother again became pregnant. Vomiting hamorrhage followed and recovery was rapid and complete

DR L F WARNER described a case that he saw The patient was in a wretched condition and vomited everything There was a jaundiced condition of the whole body Small doses of calomel, specac and hyoscyamus were The patient was directed to eat all she wished and if that was rejected to eat more. She was soon able to retain her food for a period of time which gradually lengthened In a month she could whether there were any casts in the urine of the pa- retain her food two hours, and in the end she made tient said that there were none at any time but that a good recovery In such cases it is necessary to start up a healthy action of the liver When this end is gained the progress toward recovery is sure At that time Warner said that he had never induced abortion in such cases and he had never lost a case

DR HELEN WEBSTER recalled a case that she had At a later date Dr Bates was called to see her in lost fifteen or sixteen years ago. The patient was of neurotic tendency, suffered much from neuralgia and was in a bad state generally She had aborted once previously She again became pregnant and vomiting was frequent and severe She became extremely emaciated and the skin assumed a yellow Abortion was suggested and advised but the consulting physician advised against it The patient gradually sank and died She aborted two days be-During the last forty eight hours she fore death was delirious and counted 1, 2, 3, 4 incessantly In a similar case Dr Webster would now induce an

> DR F L Burt believed that abortion was sometimes done in these cases where milder measures would be successful He also believed that active interference was often delayed until too late a period to be of any avail Medicinal means should be tried long and faithfully, but when time has demonstrated their uselessness more radical measures should be at once used

DR W S Brown said that Dr Warner had introduced an important distinction in these cases of persistent vomiting The first question to be settled in these cases is, Is the vomiting due to the pregnancy or to some other morbid condition? Dr B had means of relieving the kidneys than the induction of learned to pay particular attention to the liver and had made frequent use of the hepatic pill, so called Much of the dissatisfaction from the use of calomel scribed by Dr Bates, said that in such a case he has arisen from an unintentional adulteration of the would first use heroic measures to relieve the system drug with the corrosive chloride. This results from its

not having been thoroughly washedduring the process solute quiet and rest, yield the best results of manufacture Pure calomel is one of the safest bromides and opium seem to have the most beneforms of mercury which we have at our command, ficial effect but its adulteration with the corrosive chloride has given rise to most of the accidents which have terested in this paper, and while I am not prepared brought discredit upon the drug If Dr Clarke made any mistake in the case reported it was in waiting too long before interfering When mild remedial meas ures fail it is a mistake to delay The principal reason why the Cæsarian section is so often fatal in this country is that the operation is generally delayed recovered. It is probable that this is a very small until the patient is moribund. This operation ought percentage of the whole number, it seems to me to be nearly as successful as ovariotomy if it was per- that it is a common disease. I have had ten cases formed under favorable circumstances As a rule the operation of tracheotomy is delayed too long to practice offer any chance of recovery In inducing and abortion Dr Brown has abandoned the use of the bougie He now dilates the neck of the womb by the use of a tent the sides of which have been protected by pieces of slippery elm bark When dilatation has in this way been begun he uses a dilator and rapidly opens the neck to the required size. The advantage of this procedure is that you can thus deliver both fœtus and placenta without delay

CHICAGO MEDICAL SOCIETY

Stated Meeting, November 21, 1887 THE PRESIDENT, W T BELFIELD, M D, IN THE

DR L L McArthur read a paper on THE PRESENT STATE OF TETANUS

Tetanus is divided into acute, subacute and Every case of tetanus has, as a primary factor, a traumatism which may be no more than the prick of a hypodermic needle or may be the crushing of a limb Blacks are said to be more liable to tetanus than whites taken into consideration, hostlers, gardeners, etc., being especially susceptible to the disease claimed that tetanus is always infectious and never the amount until the man took 3 grains every dose, spontaneous. The case was mentioned of a New of the stock which was in the hospital, without a York surgeon, who, when making a post mortem examination of a horse that had died of tetanus, accidentally scratched his finger, and shortly after died Experiments have been made of the same disease by which a microorganism cultivated from garden teristic symptoms of physostigma poisoning-pinsoil and introduced under the skin of animals, produced tetanus, and muscular tissue obtained from a lungs with rapid superficial breathing I gave the case of tetanus introduced under the skin of lower usual antidotes, atropine and digitalis, and he soon Out of 16,000 recovered, the first thing he did was to assume the animals reproduced the disease cases of foot injuries during the War of the Re In 12,000 covered, but he never regained his strength of mind bellion, fifty-seven resulted in tetanus hand injuries not a single case of tetanus was re- - he was simple, had a peculiar laugh, and talked a In the acute stage the termination is always great deal, before he had been a silent man, but he fatal by the end of the fourth day from spasm of the became very garrulous and was the clown of the larynx or heart failure In the subacute, there are ward The chronic form sight of him Another case of interest occurred 50 per cent of recoveries terminates favorably in from thirty to sixty days In while I was house surgeon A man was brought to the treatment nervous sedatives, combined with ab- the hospital with a simple fracture of one tibia, in

Dr A E HOADIFY I have been very much into contribute anything in the way of theory as to the pathology or etiology of this disease, I am surprised to see how few cases have been cited, but seventyseven having been collected, then again, I am surprised to learn that fifty four out of the seventy seven of traumatic and four cases of infantile tetanus in my

DR N P PEARSON Yesterday I received a medical paper from Copenhagen, in which I saw a report of a case of infantile trismus They have found bacteria They took a part of the navel and produced infection from it, they infected mice and guinea pigs,

and they died immediately of tetanus DR FRANK BILLINGS It may be interesting to cite two or three cases that have come under my observation, especially as to the treatment Cook County Hospital, there were, I remember, two cases of especial interest to me One was a man about 30 years of age, who had received an inoculating wound from a pitch fork, through the foot, passing downward from the dorsuin He did not come to the hospital until trismus had commenced The wound in the foot was suppurating then, and Dr Meacher, of Portage, Wis, who was house surgeon, opened up the local wound and dressed it an-Tetanus developed, and on the third tiseptically day after he entered the hospital the sciatic nerve of that side was stretched It did not have a good influence, and three days afterwards the crural nerves were stretched, and after that the sciatic nerves were again stretched, without marked effect good or At the same time he was put upon morphine and chloral, afterwards he was given the treatment The occupation must also be recommended by Dr Gunn-hypodermic injections of physostigma We began with 1/8 of a grain re-It is peated every three hours, and gradually increased The stock giving out, a new perceptible effect supply was obtained, and the nurse went on giving 3 grains of the new supply I was called suddenly to see the man, and found him with all the charac-

point pupils, and rapid, weak pulse, cedema of the

tetanus position-opisthotonos He eventually re-

He disappeared from the hospital and I lost

two weeks trismus suddenly developed after a chill On examining the man, I detected fluctuation over the seat of fracture and the bones were freely mova Dr Isham was the attending surgeon wound thoroughly, and although the trismus remained for several days, the man ultimately recovered, with perfect union of the bones Another case—which is not of special medical interest—was a boy who received a crushing injury of one leg amputated the leg in its upper third, the flaps united very well, but about the seventh day he was taken The friends of the boy consented to have the sciatic nerve stretched but when we at tempted to have it done—had the boy carried into the operating room, the warden and chairman of the hospital committee interfered and commanded us to take the boy back, as a result, the old medical board stepped out of the County Hospital afterwards stretched the nerve and the boy recovered -making three recoveries from tetanus during my service in the hospital Several other cases of tet anus occurred from 4th of July pistol wounds, and death followed in every one The temperature just before and after the death was the same as in all hydrophobic patients-it rose toward death, and my

Dr J A Robison Last summer, during my service in the County Hospital, there was a case of tenanus developed in my ward The man was brought in May, with what was supposed to be cerebral meningitis, he had a high temperature, face flushed and of a purple hue He was easily ex cited, and in a day or two we noticed symptoms of tetanus, trismus and ophisthotonos occurring during the progress of the case During the January previ ous, he had received a wound from a buzz saw in the second and third fingers of the right hand He was sent to the surgical side and these fingers were am For several days it was a question whether or not he would recover, but he finally did recover, and the last I saw of him he was walking about the ward, although he was insane I think the amputation probably saved his life, because these fingers were undoubtedly a source of irritation, as he would have tetanic spasms only when these fingers were This would seem to indicate that it is pos sible that old wounds act as an exciting cause of tetanus

DR L L MCARTHUR In regard to the frequency of recoveries in the cases reported, of fifty four out of seventy seven, I would say that it is probable that the cases which terminate successfully find their way into the medical journals, while those that terminate fatally are not so frequently published, and this will explain the apparent excess of cures over deaths To say that the disease is a frequent one I think is a mistake-it is one of the rare dis eases, although one sees it occasionally in practice During the entire war there were reported 28,000

cent), thus showing that the disease is not very frequent I am glad to learn that tetanus has been proven to be of an infective nature, because this We offers the best explanation of the causation of this made a compound fracture of it and drained the disease that has yet been given. Several eminent authorities have defined tetanus as a disease of uncleanliness, which would rather point toward its infectious character In the case reported by Dr Robison, he admits that there was a meningeal doubt in the case, and I think in many cases of socalled tetanus, investigation would prove them to belong to a different class of nervous diseases with a chill, and trismus commenced, and then tetanus point I think well worthy of emphasis, that is the continuance of the treatment long after all the symptoms of tetanus have disappeared, and I very much regret, in the last case which I had, that I diminished the amount of medicine that the man was taking, during an apparent improvement in the course of the disease Several French authorities also urge We this point

DR W T BELFIFLD reported a case of

NEPHRO-LITHOTOMY

James F, 37 years old, gives the following his-Some fifteen years ago he suffered for several months from great irritability of the bladder, urinating very frequently and with considerable pain thermometer, which registers 110° F, would not several occasions he passed blood. Was treated at register it. These symptoms gradually disappeared, at intervals thereafter he suffered from dull pain in the loins, often extending upward to the chest and sometimes incapacitating him for work For the past two years pus had been seen in the urine constantly in varying quantity At times the amount would be small for a few days, during which time the pain in the side became severe, then a large quantity of pus would be discharged while the pain diminished After treatment for various complaints he came, about a year ago, under the care of Dr Frank Billings, who discovered an increased area of dulness over the left kidney, and at times a distinct, though slight, swelling in the loin that the left kidney was the seat of suppuration, Dr Billings endeavored to ascertain the cause therefor Tuberculosis was almost certainly excluded by repeated examinations of the pus for the characteristic bacilli, with negative result As renal calculus seemed the most probable diagnosis, Dr Billings referred the patient to me for operation ough examination and observation this seemed to me also the most plausible diagnosis, though many of the acute symptoms of calculus did not then ex-The right kidney could be felt through the abdominal walls and seemed normal, but previous to the operation, I endeavored to demonstrate its integrity by closing the ureter of the one under suspicion, by means of Silbermann's catheter instrument caused so much pain, however, that the result was unsatisfactory June 26 last, in the presence of Drs Billings, Hosmer and Tilley, I explored the left kidney through an oblique lumbar incision The organ was found to be enlarged and flabby wounds of the hands and feet, and of these only Upon incising the cortex an explanation of this confifty seven resulted in tetanus (1 e 1 2 of 1 per dition was found in hydro nephrosis, only a shell of

the renal tissue half an inch thick, remaining cause of hydro nephrosis was found in a calculus of conical shape some two inches in length, its smaller end impacted in the ureter so tightly as to require some force for its extraction A few loose flakes were afterwards removed from the pelvis and ureter covery ensued without notable event On the fourteenth day the patient visited his place of busi In two months his weight increased from 105 to 123 pounds, and all morbid symptoms had disappeared except that some pus was still present in the Latterly this has become so slight in amount as to be discoverable only with a microscope sumably the shriveling of the distended kidney is about accomplished. The stone is an oxalate or mulberry calculus, and weighed 224 grains

DR Belfield also reported a case of

CANCER OF THE PROSTATE

Hans J, aged 48 years, was admitted to the County Hospital, suffering from unduly frequent and somewhat painful urination Symptoms which had existed for some three months On two occasions blood had been observed in the urine tion per rectum showed a slightly enlarged, though symmetrical prostate, along the centre of which, instead of the normal depression, was a slight protuberance By the microscope we found in the urine a few blood corpuscles A tumor of the pros tate, either epitheliomatous or malignant was diag-The latter seemed more probable because the quantity of blood in the urine was altogether too slight for the benignant variety Efforts to entangle and bring away shreds of the supposed growth in the eye of a metallic catherer, failed May 7, the blad der was explored by supra pubic incision, and ma lignant villous growth was found growing over the left side of the prostate, the villi projecting an inch or more into the bladder These were removed with forceps and spoon and the base cauterized ery ensued without notable event, and for eight weeks the renal function seemed almost normal, then the former symptoms began again and steadily in-The growth finally entirely creased in severity filled the bladder and involved the abdominal wall, producing a small fistulous opening, and constituting a tumor which could be plainly outlined above the symphisis and though the rectum, apparently filling the Death occurred October 8 Only the glands in the immediate vicinity of the bladder were found to be carcinomatous and no secondary growths in other organs were discovered

DR ELBERT WING There is a point in regard to the exclusion of tuberculosis by the examination mentioned, that is perhaps of interest in this connection. A gentleman who served for two years as interne at Tubingen, told me that they had a case there which they thought was tuberculosis of the renal tract, and that they made between sixty and seventy very careful examinations of the sediment of the urine for the bacilli of tuberculosis, but found none. At the autopsy they found tubercular ulcers in the kidneys, both ureters, bladder and urethra

DR ELBERT WING exhibited a specimen from a

case of

IYPHOID FEVER

I have here some fresh pathological specimens obtained at the County Hospital to day. The first is a portion of the intestine of a man that died of typhoid fever. It shows the swelling and tumefaction of the glands very nicely. There are also a few ulcers. There is a point of interest about the case aside from the typhoid fever, which was the involvment of the respirations, averaging between 40 and 60, pulse 120, temperature 101°. When the case came to the post mortem table the lungs were found to be quite extensively cedematous.

DR WING also exhibited specimens of a case of CIRRHOSIS OF THE LIVER WITH MARKED ASCITES

The man had been tapped a number of times and finally died in the hospital from ædema of the lungs He also had a scrotal hernia, and in addition to that there was an hydrocele of the same side omentum was attached to the anterior surface of the sac perhaps two inches from the external ring, and throughout the omentum there are wide bands of connective tissue which have formed through chronic passive hyperæmia. All of the connective tissue about the liver was in a similar condition hydrocele was the size of a goose egg, and has been ıncısed The testicle is perhaps one-third smaller than one would expect to find it The organ of principal interest, however, is the liver All that need be said about the history of the case, is that the man enjoyed the sobriquet of "Champagne Charlie" It is as handsome a specimen of gin drinker's liver as one ever sees. One can see the little projecting islands of tissue, which are almost small enough to give the surface of the liver the appearance of granulation tissue By way of emphasis of the difference between this kind of cirrhosis and the so-called biliary cirrhosis, of which there is not as yet much definitely known by the profession at large, I have taken the trouble to bring some slides of this and of biliary cirrhosis They demonstrate very beautifully the difference in the way in which the connective tissue is distributed throughout the organs In diffuse cirrhosis it is peripheral to the lobule, and surrounds nearly all of the lobules in any given field, but the connective tissue in biliary cirrhosis shows itself first around the gall ducts as little circumscribed islands clearly defined seem to be two forms of biliary cirrhosis, one with and one without hypertrophy of the liver former usually occurring as an acute disease in cases of hard drinkers

CINCINNATI MEDICAL SOCIETY

Stated Meeting, January 3, 1888

The President, C P Judkins, M D, in the Chair

DR RUFUS B HALL, of Chillicothe, Ohio, reported A CASE OF PYOSALPINA, WITH SPECIMENS

The specimens consisted of the right and left ovanes and tubes The left tube was dilated to the

size of a small orange which had contained pus The right tube was enlarged but contained no puru-There were shreds of tissue adhering lent matter to every part of the tubes and ovaries, showing plainly that they had been firmly adherent before removal The patient, Mrs C A, aged 41, had always been a strong healthy woman until after her third confinement, which occurred Dec 14, 1876, after which she had a severe attack of peritonitis After the subsidence of the peritonitis she continued to suffer severe pain in the left inguinal region which was so severe as to require the continuous use of morphia for three or four months She had menor rhagia which continued without interruption from the birth of her child until the following November. notwithstanding the fact that she was receiving treatment from her physician all that time. The treatment was continued without interruption until 1880 sensitive to pressure At that time she was totally disabled from overseeing her domestic duties on account of the pain in the left side, which had continued since the attack of peritonitis much worse for seven or eight days before each menstrual period The flow continued for ten days and was so excessive as to amount to severe flooding For two years previous to the operation she suffered much pain in the right ovarian region The pain was constant and growing worse with each recurrent menstrual period, this added to her already great suffering, and the dread that it would be as severe as that on the left side, so preyed upon her mind as to cause her to become despondent Intercourse was painful, and the pelvic pain was much increased for days after it By vaginal examination the uterus was found retroflexed and immovably fixed by adhesions To the left of the uterus there was a mass the size of a small orange that was excessively sensitive to pressure, there was also great tenderness to the right of the uterus but no lump could be detected by treatment, local and constitutional, without receiving any benefit She continued to suffer, and much of the time was confined to her bed, and was never one hour without the pain in her left side from the attack of peritonitis in 1876 until after the operation was performed

She was operated upon Nov 16, 1887 The pelvic organs were so matted and glued together as to re quire much force to separate the adhesions pyosalpinx burst and spilled its contents into the abdominal cavity The uterus was liberated from the old adhesions in the cul de sac, and a glass drainage tube inserted On the third day after the operation the temperature reached 100 5°, the highest Patient was permitted to leave her bed on the eighteenth day, and to go home on the twentyseventh, entirely relieved of her pain The uterus occupied the normal position in the pelvis and was as movable as that of a healthy woman She recovered without a bad symptom

The case has many points of interest connected with its history

I That in all cases of pelvic pain coming on after puerperal or gonorrheal inflammation which remains for months after the acute inflammation has subsided, and where it is clear that the cause of the pain is not located in the uterus itself, we are to suspect salpingitis and local treatment utterly fails to effect a cure

2 The retroflexion is a natural result following the repeated attacks of inflammation and cannot be cured by any local applications made to the uterus. The use of pessaries aggravate the pelvic pain and are dangerous, as likely to produce an acute attack of peritonitis that may cause the death of the patient

notwithstanding the fact that she was receiving treatment from her physician all that time. The treatment was continued without interruption until 1880 Finding that the pain remained the same in spite of all treatment it was discontinued until 1883, when she consulted Dr O C Andre, of Piketon, Ohio He found the uterus retroflexed and fixed, and very sensitive to pressure. At that time she was totally disabled from overseeing her domestic duties on account of the pain in the left side, which had continued since the attack of peritonits. The pain was

DR C A L REED said I am induced to say something on this paper, although I may state in advance that criticism must exhaust itself in commendation The history of the case shows that it went for eleven years without a proper diagnosis being made This fact illustrates a deplorable state of affairs so far as the general profession is concerned, and I cannot refrain from presenting the indictment, that physicians are as a rule too indifferent to the diagnostic points of tubal disease These cases are not hard to diagnose, and there are but few physicians who could not diagnose them if they would But the rule is, as illustrated by this case, these patients go along for years, to come finally to the surgeon's table for an operation that has become seriously complicated through delay

right of the uterus but no lump could be detected by vaginal touch. She had submitted to all manner of treatment, local and constitutional, without receiving any benefit. She continued to suffer, and much of in hopes of improvement.

DR REED thought it would have been better practice to have operated early, before the complications had developed. It may be laid down as a rule, that cases of pyosalpinx should be operated upon so soon as the diagnosis could be made, for experience has taught that there is no other way of affording relief. Mr Lawson Tait said that while assistant to Simpson, he saw many cases that were diagnosed as uterine displacements that he now believes were cases of pyosalpinx

DR OLIVER said that there was one point in the history of the case that impressed him very strongly, and that was the fact that although this woman had suffered intense pain for a period of eleven years, during which time she had practically been bed ridden, yet her nutrition was not impaired, nor did her general health suffer to any extent. This was evidenced by the fact that her weight at the time of the

operation was about the same as when in good claims by analogy that as the action of alkaloids is This well illustrates the idea that the Fallopian tubes are not of very much importance, physiologically speaking, pathologically they seem to be of considerable importance, so far as the woman's comfort and piece of mind are concerned asked whether it would have been advisable to operate upon this case early in its course

DR HALL said, in reply to Dr Oliver's question, that he would operate just so soon as he was able to diagnose a distended tube, and that he was indifferent from their physiological action. He refers to Nencki to the cause of such distension The treatment would be the same no matter whether it was hæmato-, hydro-, or pyosalpina

GERMAN MEDICAL SOCIETY OF PHILA-DELPHIA

Stated Meeting, December 12, 1887 THE PRESIDENT IN THE CHAIR DR LAWRENCE WOLFF read a paper on **PTOMAINES**

He first referred to the long known toxic effects of decaying cadavers, but how their toxic effect was attributed to a poison rather than the transmission of a special micro-organism creating a poison in the new soil He quotes the work of Pasteur and others and their effects upon medicine He argues for the spe cific action of the microbe from the fact that albuminoids can be preserved indefinitely if protected from them, reasoning that the organized body after death does not bear within itself the means of destruction or decomposition He states that other basic substances generated during life, such as the vegetable alkaloids, have great similarity with the cadaveric bases developing through the influence of bacteria, dwelling on the definite relations neces sary between agency and soil to develop certain He considers the action of bacteria a chemical one, in consequence of which the com plex molecule is split up into simpler ones admits the albumenoids, or rather parts thereof at the necessary pabulum of the microbe but denies the excretory character of the ptomaine, which he holds to be simply by products of the decomposition He quotes at length the history and development of our knowledge of the ptomaines, accords to Dupre and Bence Jones the priority of the discovery in the ani-Sonnenchem and Sulzer next promal chinoidine duced ptomaines resembling atropine and hyoscyamine, while Rorcsh and Fassender next separated a base giving some digitalin reactions Schwanert also He then reaches the labors of isolated a ptomaine Francesco Selmi and his work in various poison cases Liebermann next furnished a comine like ptomaine as did Brouardel and Boutmy who claimed for the pto maines the general reaction of reducing potassium ferri cyanide, which was soon proven fallacious After well known poisonous exhalations of ammoniacal to the consideration of pathological ptomaines He ptomaines will be found in the pulmonary exhalations,

proportionate to their chemical structure, so ptomaines must be, and as special micro organisms produce specific bases, he argues that the type and course of infectious diseases could in this way be explained Thus, he says, pathology has fallen an heirloom to the chemist as predicted by the late Austin He lays stress on the physiological expenments with ptomaines and contends, once the specific poisons of disease known, the antidote will arise as the first who furnished pure ptomaines, and then to the exhaustive labors of Brieger, the poisonous action of peptones shown by him and the consideration of the conditions favoring the development of Thus from lecithine Brieger claims choline, neurine and neuridine formed the development of a number of diamines called respectively cadaverine, putrescine and saprine, while mydæline he found the most poisonous and having mydriatic properties Brieger shows these to belong to the ethylene series and not to the pyridines and not responding to the reduction test. Villiers separated the cholera ptomaine from the intestines, of a trimethylomine odor acting on the nervous system and heart of animals He also isolated a pneumonia ptomaine which he holds identical with that of diphtheria The writer then quotes the labors of Gautter, who isolated parvoline and hydro collidine and others, as well as leukomaines from living tissues, and claims the classification of ptomaines with alkaloids, but thinks ptomaines destroyed in the body by oxydation, as not found in the urine Brieger in his latest researches describes as ptomaine a poisonous amidoacid, also midatoxine and methyl guanidine This investigator also experimented with pathogenic bacteria in cultures, and claims that while the staphylococcus pyogenes aureus produces only ammonium chloride the streptococcus produces besides this trimethylamine From cultures of the the typhus bacillus he ob tained thy photoxine, from tetanous ferment another giving physiological symptoms as the cultures author of the paper then quotes the tyrotoxicon of Vaughan and lays stress on its importance both as a He forensic ptomaine as well as one pathogenic of cholera infantum He then gives a resume of his paper, dwelling on the generally transient character of the ptomaines and their instability He speaks of the difficulty and complexity of their chemistry and calls attention to the danger of new productions in the process of isolation, but principally of the danger in his opinion of reducing their complex molecules into simpler ones during their purification He disclaims the relative value of their development from cultures and says their absence from the urine where alkaloids are found is no proof of their non existence or oxydation The principal point is in calling attention to the volatility of ptomaines in their basic state and the probability of their excretion by the respiratory apparatus, which is clinically borne out by the specific odor of diseases, and physiologically by the again referring to the vast labors of Selmi he proceeds compounds. He claims that the true pathological

and states that he is engaged on experiments with a view to test his theory

irritation quickly followed the ingestion of the food, but disappeared on the second day. On the ninth day, an attack simulating cerebro spinal fever ap peared with headache, vomiting, retraction of the neck, delirium, spastic contractions on irritation of all the voluntary muscles, acetonuria, and death by failure of respiration only hyperæmia of the cerebro spinal meninges Now, in considering this case, the primary gastrointestinal phenomena are readily understood to be those of local irritation nine days, do they speak for a late intoxication, or for an infection after a period of incubation? Is there any known ptomaine which introduced into the gas tro-intestinal canal would be so gradually absorbed, and so slowly eliminated, as to exhibit accumulative action at the end of so long a period?

DR FORMAD called attention to the fact that cadaveric poisons are volatile, so that the danger from dissecting wounds diminishes from day to day Virchow and von Recklinghausen ad- ing autopsy in all cases of infectious disease healthy tissue, as in sudden death from accident, or taken from the living animal, is highly poisonous if So too is the saliva, of introduced under the skin which the serpent virus is but a specialization

Another reason for delay, is the fact that the less dangerous bacteria of putrefaction will ultimately crowd out the specific bacteria of the disease confirms Dr Wolff's statement that oxygen is neces sary for the development of the bacteria-his investigations made in conjunction with Professor Vaughan upon the bacteria of diphtheria in milk, having illustrated this fact. In his opinion, bacteriology has as yet offered nothing absolute in the diagnosis of disease, except in the cases of anthrax, tubercu losis and relapsing fever, and he hopes that chemis try will, in the near future, give us the pathognomonic principles of disease

DR MAYS said It is not true that all animal poisons are the products of the development of microorganisms, and cited as instances the toxic effect of saliva, its analogue the serpent venom, and even the physiological peptones, when introduced under the skin So too papaitine, of vegetable origin, in which no bacteriological agency is claimed, is identical in its effect with the rattle snake poison Could not therefore certain cases of ptomaiæmia be due simply to the presence of physiological materials in the wrong place—as for example, the hydrated albuminoids in the circulation? The poi son in Dr Weed's case was probably the "Wurst Gift" of Brieger, analogous in its effects to curare

DR Wise called attention to the fact, that certain savage nations live almost exclusively on the meat of animals which died of a natural death, and whose meat is partially decayed-such as the nomadic Arabs and the Norwegian fisherman-without experiencing any ill effects

DR MILLER emphasized the element of susceptibility in the production of the phenomena of ptomaine DR WELD related a case of sausage poisoning, in poisoning, and cited cases, one of tyrotoxicon and which the well known symptom of gastro intestinal one of post mortem poison, in which only certain individuals experienced ill effects

> DR ROSENTHAL called attention to the fact, that in the cases of ergotized rye and fish pickle, vegetable and animal tissues furnish identical poisons, viz

propylamine and trymethylamine

DR SEILER in reply to Dr Wise, said that im-The post mortem revealed munity results from the habitual introduction of toxic elements into the system, as in the case of the poison of insects He questioned whether the endemic leprosy among the Norwegian fisherman, might not But those appearing after be, in part, due to the very habit cited

DR Collins expressed his belief that ptomaines are constantly produced in the body, and that autoinfection is prevented by the simultaneous produc-

tion of antagonistic ones

DR Wolff in closing the discussion, said that in Dr Weed's case the primary phenomena were due to direct irritation, while the later symptoms were of bacterial origin There is a remarkable resemblance between ptomaiæmia and curare poison-As we are ignorant of the mode of preparing vise waiting until the third or fourth day with the this drug, who knows but what decayed animal tissue may be one of its ingredients? In reply to Dr Wise's remarks, he called attention to the fact, that cooking decayed meat, would drive off the volatile ptomaines, and kill the bacteria, and that when such food is taken raw, the process of digestion effects the same result

FOREIGN CORRESPONDENCE

LETTER FROM VIENNA (FROM OUR OWN CORRESPONDENT)

Phosphate of Lime in Laryngeal Tuberculosis-Sublimate Fossil meal in Abdominal Actinomycosis Hominis-Syphilitic Myositis-Cocaine in Ophthalmic Surgery-Professor von Langer

In two of the recent numbers of the Internationale Klinische Rundschen, Prof John Schnitzler gives some interesting details of a lecture on the treatment of tuberculosis of the larynx with the phosphate of lime, which he had delivered in the Section of Laryngology and Rhinology of the sixtieth meeting of German scientists and physicians at Wiesbaden availed himself of the acid solution of the phosphate of lime, as recommended by Drs Freund and Kolischer, of Vienna, but later on he used phosphoric acid in different degrees of concentration, and at last, the pure and non diluted acid was used the solution of Freund and Kolischer by means of the brush or the syringe, and proceeded quite in the same way when he availed himself of the pure phosphoric acid The patients stated that they had a burning and prickly sensation after the application, which varied according to the intensity of the brushings or the injections. In some cases severe pains supervened, and sometimes also spasms of the rima

glottidis were produced On the laryngoscopical examination an increased hyperæmia of the respective mucous membrane was observed, and only on energetic application a grey-white scurf could be noticed which, in most of cases, soon disappeared In superficial, and occasionally also in deep ulcerations, these became cleaned in this course of treatment, and sometimes also fresh granulations were observed, which led to a temporary recovery, no permanent cure or that of a long duration could, however, be obtained in this way The same was also true of the treatment with gauze which had been saturated with the solution of the phosphate of lime

Prof Schnitzler then changed the method under consideration in such a way that he availed himself of the phosphate of lime in the form of a powder, instead of the solution which had been recommended The idea which led the lecturer to by Dr Kolischer adopt this procedure was the fact that powders which had not at all any antiseptic or specific quality never theless favorably influenced the ulcerative process by forming a protecting layer on the ulcerations, and this so much the more when, owing to their chemical composition, they have the quality of diminishing the secretion, a quality which was always stated as being characteristic for the lime preparations way in which the powder of the phosphate of lime Before the powder is was used was the following applied to the larynx the mucous membrane must be washed, and the erosions and ulcerations must be cleaned, the adhering muco purulent layers being re For this purpose the inhalations of chloride of potassium and chloride of sodium, as well as the solutions of salicylic and boracic acid, can be most advantageously availed of The inflations with the powder of the phosphate of lime are then made, and in such a way that the whole mucous membrane, and especially the diseased parts of the larynx, are quite covered with the powder After it had become evident that in this way of the administration of the phosphate of lime the secretion not only diminished form of spasmodic muscular contractions even when and the swelling decreased, but that also a tendency towards recovery of the ulcerations could be noticed, also other remedies which might exert a good influence on the laryngeal phthisis were added to the phosphate of lime, and after repeated trials, the following formula of a powder which had been used in numerous cases with good success was attained

Cocami mur o 2 (grams) Calcı phosphor 100 gtts v Ol menth piper

The results that had been obtained with the inflations with this powder consisted, first, in a cool sensation in the throat, a diminution in the irritability and a decrease in the pains, when the treatment was continued for a longer time, a diminution in the se cretion and a decrease in the swelling of the mucous membrane, and finally-at last in some cases in which the process had not much advanced—an evident tendency towards recovery could be noticed

Prof Schnitzler remarks at the end of his communication that, in spite of these not very considerable results, he would nevertheless recommend the use of ning of the process, much changed in their appearthe phosphate of lime in the now mentioned way ance, whereas the interstitual connective tissue con-

Though this remedy had no specific influence on the tubercular process, relief and, under favorable conditions, also recovery was obtained in several cases, and at any case this was an excellent remedy in all catarrhal affections of the upper air passages

At a recent meeting of the Imperial Royal Society of Physicians of this city, Dr Ullman, Prof Albert's assistant, brought forward a case of abdominal actinomycosis which had been successfully treated in Prof Albert's clinic by means of the application of a dress of sublimate fossil meal (Sublimat Kieselguhr, a paste which is prepared with sublimate and silicious earth) The patient presented a solid tumor of a violet color in the right hypochondriac region, and on the examination of the patient at Prof Albert's clinic, one discovered a fistula in the abdominal region which went as far as the bladder, and from which pus discharged on pressure The microscopical examination of the pus proved the presence of the actinomycosis granules which were characteristic of the disease under consideration The diagnosis of actinomycosis of the abdominal walls could already be made after the external appearance of the hypochondriac tumor, as such cases had already repeat-After convenient edly been observed at that clinic operation, a dress of sublimate fossil-meal (containing 10 per mille sublimate) was applied to the wound, and the patient could be dismissed from the hospital as cured after four weeks As to the conditions of the pus in cases of actinomycosis, Dr Ullmann remarked that, on repeated examinations, he had also met with other microorganisms, such as "staphylococci" and "streptococci," and he was of the opinion that the suppurating process was caused by these fungi, and that the actinomycetes created only a locus minor is resistentia

Prof Neumann recently communicated to the same Society some valuable details concerning myositis syphilitica He inquired into the cause of those intense pains in the rectum which supervened in the the rectal mucous membrane which had before been affected with syphilis was quite cured, and there was no longer any clinical symptom present which should The presence of explain these painful contractions "fissuræ" in the rectal mucous membrane could not serve as an explication of the appearances, as the tormenting pains still persisted when the fissuræ became covered with skin Taking into account the peculiarity of the pains in the rectum, which chiefly consisted in spasmodic contractions, Prof Neumann thought it necessary to examine also the sphincter anı externus and to find out whether there were not present pathological conditions also in this muscle, which should be able to explain the subjective symp-This was so much the more probable as it was known that, in gummous degenerations of the rectum, involuntary defecation took place owing to the fact that the sphincters have lost their normal function In cases of myositis it was chiefly the blood vessels of the perimysium from which the infiltration derived its origin, the muscular fibres were not, in the begintained many serpentine and dilated blood vessels with granulation cells. Soon after these appearances, the nuclei of the muscular fibres began to proliferate, and instead of one nucleus, from fixe to twelve nuclei lay close by each other in one series. Such a proliferation of the nuclei of the muscles could persist in slight inflammations of the muscles, according to the experiences of Recklinghausen, Billroth and Leube. The interstitial connective tissue filled itself more and more with granulation cells, the muscular fibres became thinner, and when the process was completed, the muscular substance was replaced by connective tissue.

The clinical symptoms were intense pains, especially during and after defecation, which in easy cases continued only for a short time after defecation, but in severe ones persisted for hours and even for days with the greatest intensity These pains became still more vehement when the myositis was combined with The syphilitic affections of the sphincter muscle were more painful than those in other mus cles, and they were also the most frequent ones The myositis syphilitica was observed at the clinic of the lecturer three times in all other muscles except the sphincter, in an interval of five years, whereas in a much shorter time, since Prof Neumann had begun to give a greater attention to this affection, it was ob served to occur five times in the sphincter muscles, and this in an interval of 11/2 year—the cases of gummous degeneration of the rectum being excluded The syphilitic inflammation of the sphincter was to be observed more commonly in women than in men, which could be explained by the fact that "papule" and "rhagadæ" in the anus were to be met with more frequently in the female sex than in the male one In future, even when all other symptoms of the syph ilis have disappeared, and only pains which are caused by the contractions of the sphincter muscle are present, we shall have to begin a general syphilitic treatment besides the local ones by remedies which facili-When the pains do not disappear tate resorption after this course of treatment, sphincterotomy will surely cure the patients In the tertiary stage of the syphilis, the appearances of paralysis with consecutive changes in the muscles were more striking, as the muscular substance of the periproctal connective tissue was destroyed, and strictures and involuntary defecations thus supervened

At a recent meeting of the "Verein deutscher Frzte" of Prague, Dr Herrenheiser delivered a lecture on his experience with cocaine as an anæs thetic in ophthalmic surgery, and stated, in the beginning of his communication, that when the subcutaneous injections were executed with a 10 per cent solution of cocaine, the anæsthesia was after the interval of a minute so complete that operation could be commenced As to the operations on the lens, he could only confirm the experiences of other In iridectomy, complete anæsthesia investigators was in most of cases present, and only in leucoma adherens, and especially in that after ulcus serpens, the patients had painful sensations, which Dr Herrenheiser explained by the strong traction which was

cocume was availed of in several hundred cases, the cocaine intoxication which was described by many authors, had at the clinic of Prof Sattler been observed only once This was a case in which o 04 grams (4 centigrams) of a 10 per cent solution were injected subcutaneously for the anæsthesia of the upper eyelid, and in which the operation was Dr Herrenheiser believed that it was rbandoned either the biosyncrasia against the remedy in question which gave origin to these symptoms, or that, owing to the late beginning of the operation, a too great quantity of cocaine was absorbed however, the operation was begun one minute after the injection, the greater part of the liquid emptied Losses of epithelium of the cornea were (flew off) very irequently observed, but in careful asepsis and antisepsis they were without any danger for the pa-The cocaine should either be prepared in an antiseptic fluid (in the clinic of Prof Sattler it is prepared in sublimate of a concentration of 10 10,000), or it should be heated to boiling before administra-Dimnesses of the eye, such as were first described by Bunge, have not been observed hitherto Thirty nine great operations on the eyelids were performed since the end of May, 1887, and in all the cocame proved very good

Seven enucleations of the eye, in which the injections were made under the conjunctiva (as far as possible behind the conjunctiva), were also quite painless. The statements that chemosis of the conjunctiva hindered the anæsthesia proved to be incorrect, and this was also true of the statement that the enucleation of eyes which had to be removed owing to intense pains was very painful to the patient when subjunctival injection of cocaine was resorted to

Charles v Langer, ordinary professor for normal anatomy at the Vienna Medical Faculty, died on the 8th of the current month in Vienna He was born in 1819 in German Bohemia, and made his preliminary studies at Pilsen in Bohemia, and studied medicine at Prague, where he obtained his diploma as Doctor in Medicine Langer was for a long time assistant to the distinguished anatomist, Prof Hyrtl, and in 1874 he was named ordinary professor for descriptive anatomy at the Vienna Medical Faculty He had a very good reputation as a teacher, and among his works, those on comparative anatomy, on the blood vessels, the joints, the growth of the heart, the anatomy and physiology of the skin, the mammary glands, deserve to be specially mentioned He was the recipient of several distinctions and was also knighted by the Emperor

DOMESTIC CORRESPONDENCE

LETTER FROM CINCINNATI (FROM OUR OWN CORRESPONDENT)

The University—Medical Colleges—Medical Socie ties—State Medical Laws—The Childrens Hospital —Typhoid Fever

renheiser explained by the strong traction which was A persistent and determined effort has been made executed for the detachment of the ins Though by the Board of Trustees to incorporate the various

institutions of learning under the banner of the Cin cinnati University This effort met with a great amount of strong opposition at first, so that for a time it seemed as though the enterprise would have to be abandoned, but at present the prospects of toms of typhoid, the majority differed very markedly ultimate success are very bright largely supported by the income derived from a bequest made in the will of the late Charles McMicken, a tax of one tenth of a mill is also levied upon the taxable property of Cincinnati for its support bequest of Charles McMicken amounted to upwards of seven hundred thousand dollars, this amount is almost entirely invested in real estate in and around Cincinnati In making their propositions to the educational institutes the Board asked for no abrogation of the rights and interests they enjoyed as pri vate corporations, but merely wished them to be come departments of the University, thus making the institution what it claimed to be-a University The Medical College of Ohio, the Miami Medical College, the Clinical and Pathological School of the Cincinnati Hospital, together with the Ohio Dental College and the College of Pharmacy, now consti tute the Medical Department The number of students in this branch of the University will aggregate five hundred, thus giving this particular branch no mean proportions when compared with the same department in the various other Universities of our country, and at the same time it will act as an incentive to labor for the union of the College of Music, the Art School, the Law School, and the other Schools with the University

The city has four Medical Societies in active op The Academy of Medicine, which is the largest and most flourishing one, the Cincinnati Medical Society, which is an off shoot from the above mentioned Society Walnut Hills, one of our populous and thriving suburbs, has a Society of its The Hamilton County Association of Physi cians is the newest arrival, in fact it has not passed The inefficient state of its first anniversary as yet our medical laws, together with the large amount of quackery, gave rise to the feeling that some steps should be taken to remedy these evils, and it was for the purpose of remedying these defects that this par ticular Society was organized, and strong efforts will be made this winter to efface some of these blotches from our State and city

During the past year an elegant Childrens' Hospital has been erected upon Mt Auburn, through the munificence of Messrs Thomas and Joseph Emery The government of the Hospital is vested in a Board of Directors appointed by the Episcopal Church, but the institution was given under the condition that neither sex, color or religion should be allowed to influence the admission of patients

Typhoid fever prevailed to an exceedingly great extent during the months of September, October and November, it being estimated that no less than three thousand cases occurred during these three it also bears a strong analogy to that form of disease months. The type of the disease was quite mild, that was designated "bilious remittent fever" by the consequently the mortality was small when com- older medical writers. In regard to the causation pared to that of previous epidemics The disease of the disease we can only call attention to several was not confined to any particular section of the attendant circumstances and allow the reader to

city, but was quite generally distributed over the entire territory, being found both on the hills and in the valley, and to about an equal extent While there were a few cases that presented the typical symp-The University is from the description ordinarily given of this disease, and in order to verify this assertion, I shall endeavor briefly to point out the most apparent points of dif-The stage of invasion was very short, in ference many cases apparently totally absent, there being none of the marked prodromes so common in enteric fever, thus giving an apparently abrupt inva-The temperature, instead of beginning mildly and slowly mounting up until it had reached its maximum, then slowly and gradually declining until a normal temperature was reached, would be very high (104°-105°) at the very inception of the disease, so that we often found that the highest fever occurred during the first two or three days, and that the course of the fever was very irregular and uncertain, sometimes reaching the normal standard in less than two weeks, and then again continuing for an almost indefinite period

In regard to the symptoms referable to special organs, we also find a wide divergence from these ordinarily present in typhoid Instead of the low muttering delirium we found in these cases an active, sometimes violent delirium, which in some cases would appear before the end of the first week and persist throughout the entire course of the disease Adynamia was less marked, sordes, bed sores and rose-spots were rendered conspicuous by their absence in the vast majority of cases Cephalalgia and backache were common, though ordinarily not severe Bronchitis and hypostatic congestion have not been marked features When we come to consider the abdominal symptoms we find the widest deviation from ordinary typhoid, constipation was the rule and diarrhoea the exception, tympanites was absent, or but slightly marked Tenderness and gurgling in the right iliac fossa was present, but with this there was a diffuse abdominal tenderness testinal hæmorrhages were more frequent than usual Quinia and other cinchoand uncommonly severe na salts were powerless to arrest the course of the Antifebrin and antipyrin were very exten sively used for their antipyretic action, and the results obtained were very good as a rule From this short résumé we are irresistibly drawn to the conclusion that although there were some points of resemblance to typhoid, yet the symptomatology was quite different from that disease in many particulars

What is the nature of this affection? Is this the simple typhoid fever, or is it a combination of typhoid with some other malady? In all those cases in which an autopsy could be obtained ulceration of Peyer's patches was found, in some cases the ulceration was very extensive. This epidemic is certainly very suggestive of Woodward's typho malarial fever,

draw his own conclusions Our supply of drinking water is obtained from the Ohio river, at a point contents into the river, and there are three or four more that empty a short distance below the water-The river has been lower this season than for several years past Another possible factor in the causation of the disease may have been the extensive improvements that have taken place in our streets the past year. All of our principal streets have been torn up and repaved, and the turning up have been an etiological factor

That neither the water supply nor the repaying of) the streets is the sole cause is proven by the occur rence of many cases in the outlying districts, where it they rely exclusively upon springs, wells or cisterns for their water supply One family, who relied en tirely upon spring water, were all (five people) pros trated by the disease There had been no other case in the neighborhood prior to the time of their attack

The majority of our people boiled their drinkingwater previous to its use, but, so far as discernable, with little or no effect upon limiting the spread of It was impossible to trace the course the disease of the epidemic, as we are never free from cases of typhoid, and these cases appeared to develop almost simultaneously in every district of the city this disease, and it appears to be true as regards all the infectious diseases, that there were more cases, and the disease persisted for a greater length of time, in the poorly sewered districts than in those that were well supplied in that respect

MEDICAL LEGISLATION

Dear Sir -The several editorials that have ap peared in The Journal recently, relative to legislative interference in medicine are terse and eminently correct The question, however, immediately arises How can it be accomplished?

Here in the Peninsular State, where schools are free and education is fairly forced into the masses by law, where we have a university second to none in and knowledge becomes stale, our legislators are impotent when a bill to protect the people from quackery is presented to them Canada and the surrounding States have, to a certain extent, forced charlatanism out of their limits by legislative enactment, but we stand here like Bartholdi's Statue of We are enlightening the World but there DOSE OF CORROSIVE SUBLIMATE FOR CHIL-Liberty is a horde of vampires that have crawled in from other States, besides many of our own, that we foster, which bask in the sunlight of our intelligent toleration and air their ignorance at the base of the statue

Lawyers that deal with the people's wealth, den-

save the mark-as a "doctor" "I'd rather be a dog and bay at the moon" than practice 'mongst a set of near the eastern extremity of the city, above this knaves and charlatans, but yet I've done so for thirty point there are several sewers that empty their filthy years and more, and still survive—as likewise do the quacks

In the year 1869 I had the honor, or indiscretion, -whichever you may choose to call it—of introducing the first bill in the Michigan Legislature to "Regulate the Practice of Medicine" That was the title of the bill It was a slightly altered transcript of the Ohio law then in force It was very mild it called for was a board of examiners, to be appointof so much soil in the midst of the city may possibly ed by the Governor, to attest to the applicant's qual ifications in the fundamentals of medicine What do you suppose those wiseacres did with it? They tossed it up and threw words at it They amended They amended it repeatedly The miscreants got so many amendments in finally that they crowded out the body of the bill, and there wasn't enough lest to hold an inquest on Then they sat down on it, and one of those old supervisors—such as adorn our legislature—told me that "death follows in the wake of you graduates "

It is easy enough, therefore, to infer that our high education does not necessarily contribute to the public weal, for Georgia, North Carolina, and other Southern States, where ignorance is supposed to be the rule and education the exception, have for years

prohibited quackery by law

"A little learning is a dangerous thing," and our One prominent fact has been observed in relation to legislators in the main have got the requisite amount to make them an object of fear Still, although my bill and I were fearfully mangled at the time spoken of, I believe that public opinion is becoming gradually educated up to a point where people can see that honorable members of the profession are working for their interests, and not from any mercenary motive

If the profession throughout the land would see to it that their representatives in the legislature were not in collusion with charlatans, and would post them relative to the importance of legislative action -and especially correct action-before it is everlastingly too late, our case is not entirely hopeless The apathy of physicians has been the bane of the profession in this respect, and I presume to say it will continue to be so until "doctors" overrun the land like the frogs of Egypt Still, notwithstanding the large and the World, perhaps, where learning runs rampant increasing output of graduates from our multiplying colleges, the probability is that if simple graduation from a reputable school were the only standard of admission to practice, the field would not be crowded, provided all others were excluded

MICHIGAN

DREN A CORRECTION

Dear Sir -In the report published in The Jour-NAL, of my paper on diphtheria, recently read before the New York County Medical Association, occurs the following "Dr Smith thought that the quantists that tamper with their teeth, and druggists that tity of bichloride that could be safely administered dispense their pills, all are under control of law, but to children of various ages was about as follows To the man that deals with their lives may be anything or a child of 2 years, 1/6 grain, 4 years, 1/4 grain, 6 nothing, only so he has registered himself—Heaven years, 1/2 grain, 10 years, 1/2 grain " The latter

sentence as it stands might do much harm, since diphtheria is so prevalent that physicians are anx 10usly inquiring how it shall be treated, and the sublimate in an over dose may be more fatal than the disease for which it is prescribed What I did say was that I thought that the above were about the quantities that should be given in divided doses, in ordinary cases, in twenty four hours, and I repeated this with emphasis, in order that there should be no Permit me also to correct another error relating to statistics of the treatment of diphtheria, which is going the rounds of the medical press Dr Lunin, of St Petersburgh, made comparative trial of various remedies in the treatment of diphtheria in the Oldenberg Hospital, with the following result Cases, 296 Percentage of deaths, 55

Fibrinous Form	Septic Phlegmonous Form	General Result
By turpentine, 8 30 per ct By resorcine, 20 00 " By sublimate, 30 20 " By chinoline 31 60 " By fer perchlor 32 60 " By bromine, 46 7 "	By turpentine, 81 00 per ct. By resorcine, 89 5 "By sublimate, 92 5 "By chinoline roo "By ferri perchlor 76 5 "By bromine, 88 9 "	Deaths 43 4 per ct 65 " 45 " 53 " 69 7 "

In some of the medical journals of largest circulation the table of general or total percentage of deaths is substituted for table of percentage of deaths in the septic phlegmonous form, the correct table of the result of treatment in the septic phlegmonous cases being omitted As Dr Lunin resides so far away he probably will not be aware of the mistake which translators have made His use of the sublimate was only local, and hence his statistics as regards this agent are not very valuable

Yours truly, J LEWIS SMITH, M D 64 W 56th St, New York, Jan 19, 1888

NECROLOGY.

JOSEPH O WEST, M D

Dr West was born in Barnstead, N H, June 21, 1823, and died January 28, 1887 When quite young he came to Lowell, Mass, with his mother fitted for college at the high school, and graduated from Dartmouth in 1845 He immediately entered the office of Dr Nathan Allen, of Lowell, as a student Having attended lectures at Harvard Medical School, he graduated from that institution Dr West soon afterwards settled in the town of Princeton, Worcester county, Mass, where he continued his professional duties until his death By education, genial manners, quick observation and a thorough knowledge of human nature, he was ad-Dr Thomas N mirably fitted for medical practice Gage, of Worcester, who as a neighboring physician had long known Dr West, bears this testimony

"To great natural abilities, trained, disciplined, and educated in the schools, he added high profes sional attainments, and the richer graces of a pure And such natural enand consistent Christian life dowments and acquirements, an intelligent and discerning people were not slow to recognize and appreciate Thus it came about that early in his life,

and to the end, he was respected, trusted, honored, and beloved, as it falls to the lot of very few to be Both profession and laity gave him, without reserve, their confidence and regard As a physician he was remarkably modest and unpretending, yet judicious and skilful, and equal to any emergency High pro fessional attainments and skill, and the wisdom gained by experience, he held as sacred trusts, to be administered under a sense of great accountability, and he was faithful to the solemn charge "

He was a member of the American Medical Asso-

ciation since 1865

His death was caused by acute laryngitis, followed by typhoid pneumonia and nephritis He leaves a widow (whose maiden name was Ellen M Gregory, of Princeton), with four daughters

ASSOCIATION ITEMS.

THE ANNUAL MEETING —We learn from the Chairman of the Committee of Arrangements for the next meeting, that the famous Cincinnati Music Hall has been secured for the general sessions of the Association and that all the Sections will be accommodated with rooms in the same building The members are to be congratulated that such excellent and convenient arrangements for places of meeting have been secured

The Committee of Arrangements and its various sub committees are fully organized and are working energetically to make the approaching meeting in every way attractive and successful Reduced railroad fares have already been secured Details in regard to them will be given later

MISCELLANEOUS.

THE OHIO STATE SANITARY ASSOCIATION will hold its fifth annual meeting, at Toledo, Ohio, Febuary 9 and 10, 1888 The meetings will be held in the G. A. R. Hall, corner of Adams and Ontario Sts, commencing at 8 30 AM, of the 9th, with a full programme of papers and important topics for discussion President, Professor E T Nelson, Delaware, Secretary, R Harvey Reed, M D, Mansfield, Ohio

ROLL OF MEMBERS CORRECTIONS —The residence of R F Henry, M D, Princeville, Indiana, in the list of permanent members in The Journal for December 31, 1887, should have been Princeville, Illinois Also for E P Dunning, Paw Paw, Michigan, read E B Dunning etc For Hall, Calvin C, read Halsey, Calvin C, Montrose, Pa

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U S MARINE HOSPITAL SERVICE FOR THE WEEK ENDING JANUARY

Surgeon C B Goldsborough, to proceed with insane seaman from Chicago to Government Hospital for the Insane January 16, 1888

Asst Surgeon F C Heath, to proceed to Buffalo, N Y, for temporary duty January 21, 1888 ¹
Surgeon G W Storer, to proceed to Wilmington, N C, Georgetown and Charleston, S C, Savannah and Brunswick, Ga., Fernandina, Jacksonville and Pensacola, F¹a, as inspector. December 20, 1887 December 30, 1887

¹ Omitted from previous lists

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

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No 5

ORIGINAL ARTICLES.

A CASE OF PEMPHIGUS OF THE CONJUNCTIVA. WITH REMARKS

Read in Section on Ophthalmology and Otology, at the Thirty Eighth Annual Meeting of the American Medical Association, June, 1887

BY ROBERT TILLEY, M D

OF CHICACO

The case that I present for inspection is happily You see a boy of 12 years abnot a common one solutely blind He can simply distinguish night from day, and as he is certainly beyond operative relief, he may with scientific accuracy be termed blind He is blind, however, not from any disorder of the optic nerve, not from any central lesion, not from any affection of the uveal tract, not from any primary affection of the lens or cornea, not from any traumatism, but from a complete closure of both upper and lower conjunctival cul de sacs, and a com plete adhesion of both lids to the eye balls, the adhesion having taken place with the lids nearly wide

He was in practically the same condition in the early part of the year 1882, when I first saw him, as he is now, only at that time there was a large amount of photophobia and a certain amount of acute swelling of the borders of the lids, and there was a good deal more evidence of the existence of corneal tissue There was at that time practically no difference in the two eyes The left had slightly the most unpromising appearance I say he was practi cally in the same condition, I mean, of course, relative to his eyes There were at that time numerous bullæ over the body and one in the buccal cavity on the left side, on the cheek, and an angry vaccination pustule about an inch in diameter on the left arm These bullæ continued to appear at intervals over the body for about four years There has not been any appearance of them, according to the statement of the mother, for the last year All traces of them have disappeared except two almost symmetrically located on the two sides of the chest, where suppurfor yourselves

and from that time his eyes became inflamed so that in a brief period "they were as red as raw beef" The vaccination occurred in February, 1881, and the mother is confident that the boy has not been able to see since the month of April, 1881 Previous to the vaccination the mother is confident that there had been no affection of the boy's eyes whatever I mention this history particularly, because of its relation to a quotation by McCall Anderson from Sir Erasmus Wilson, which I shall make later

It was to relieve this severe redness of the eyes and closure of the lids that the child was taken to an eminent oculist of this city about the month of April, 1881 I am unable to describe the condition of the eyes at this time but I learn that the attendance was limited to about three or four visits

The interesting feature of this case is the evidence of healthy eyes prior to February, 1881, the appearance of redness and swelling and, according to the mother, inability to see since April, 1881, and my own personal observation of this hopelessly blind condition in the month of January, 1882 tainly within a year, and in all probability, the whole difficulty having occurred in two months the presence of bullæ on the body developed after the destructive closure of the lids, their appearance in successive crops for a period of four years disappearance of all traces of these bullæ excepting two which ulcerated on the chest, and I think I may add, the absence of any evidences of any inherited constitutional trouble I will add here that none of the other children were affected in any similar way

Are we then justified from these facts, together with the present condition of the eyes which you can inspect for yourselves, and which will be described more minutely later, in concluding that during that period of severe redness and inflammation the bullæ of pemphigus invaded so extensively the conjunctiva as to destroy its texture completely and cause this complete adherence of the lids to the eyeballs other words, that this is a genuine case of that rare affection, pemphigus of the conjunctiva, of an unusually severe type

You will observe that the time of development of ation evidently occurred These you can inspect the disease to such a disastrous result was very short and that there is no evidence of any previous tra-The history obtained from the parents is that all choma This I consider strong evidence of some dethe children were vaccinated at the same time, but structive agency, and in the absence of traumatism that the vaccine point which was about to be used of any kind, would be best explained by supposing for the patient was dropped, seized by a dog, and the existence of blebs with possibly slight suppurastill used That after the accumation fever occurred, tion destroying the thin and delicate conjunctiva

As you inspect him you will observe that the cornea of both eyes, if any cornea may be said to exist, are dry and horny That they are never moistened with tears or mucus of any kind You will see that the lashes are not much inverted, that the lids are completely adherent to the globes throughout their whole extent, and yet that the adhesion is so loose that it is evident that the pathological process has not invaded the deep tissues of the lids You will see that the punctæ lacrymalæ are obliterated, or at any rate not visible, that the palpebral fissure is of nearly normal length, that the distance between the lids in the centre is not far from normal, but that from the borders of the lids there extends over the eyeball a dry, horny pellicle, and that in the centre of the external surface of each eyeball is a dry small residue of a former tissue I have seen no evidence of the secretion of tears The movements of the eyeball are practically unimpeded I think you will fail to find any evidence from the contour of the face or the teeth of inherited trouble The teeth, however, are markedly irregular, but they cannot be referred to the classical teeth of Hutchinson When I saw him in 1882 this peculiarity of the teeth had, of course, not appeared, he was then about 6 or 7 years As you look at the teeth it would appear that the two upper central incisors are separated by a juries, he says "Sir Erasmus Wilson has recorded tooth of another kind

There is one thing that I must not fail to mention, and that is, that the mother has been and still is the subject of a contracted condition of the conjunctiva of the upper lids resulting in inverted ciliæ That is the only fact that seems to be of interest relative to the family history There are in all six children, with only one death

Early in the year 1882 I tried, assisted by Dr Gradle, and Dr Niles the family physician, to separate the lids from the ball of the left eye, but the result coincided with the experience of others—it There were no operative measures was a failure taken with the other eye

sults of a case of pemphigus, then it must be quite a unique case According to Pfluger, as quoted by W Lang, in the Transactions of the Ophthamological Society of the United Kingdom, 1886, Hebra had seen up to the year 1873, 200 cases of pemphigus, but in no case did it affect the conjunctiva course it may be said that patients so afflicted would | blebs on the mucous surfaces are very fugitive, and be more likely to visit the ophthalmologist than the from the delicate nature of the mucous membrane of dermatologist, but the cases are also exceedingly rare in ophthalmological literature The subject has on two occasions been brought before the Ophthalmological Society of the United Kingdom, and in the Transactions of the Society for 1886, Mr W Lang reviews the literature of the subject and says that up to that time only 23 cases had been published The first was published by Mr White Cooper, in the L O H Reports, July, 1858, and that only one of these twenty-three was published in America

In the Traité Complet d'Ophthalmologie, by De Wecker and Landolt, p 438, we read "Pemphigus even when universal only rarely affects the conjunctiva " Professor von Arlt, of Vienna, in his

"Diseases of the Anterior part of the Eyeball," as translated by Dr Lyman Ware, says "Conjunctival pemphigus is an exceedingly rare disease author has seen but two cases, and they had run their course" If a veteran of von Arlt's experience had only seen two cases there needs no other evidence of its rarity

Mr W Lang, in his report above referred to, presents three cases, two of which had already been presented to the Society under the title of "A Peculiar Affection of the Conjunctiva" Mr Lang strove to show that the cases published under the head of "Essential Shrinking of the Conjunctiva," by von-Graefe, and the syndesmitis degenerativa, of Stellwag, properly belong to the same affection and should be classified as pemphigus of the conjunctiva The subject, however, elicited much discussion and difference of opinion

In referring to the dematologists we find in Besnier's translation of Kaposi, p 57 "In pemphigus bulle have also been observed on the conjunctiva Pemphigus when it attacks the mucous membrane is sometimes confined to that membrane or precedes the lesion on the skin "

According to McCall Anderson, it seems to be occasionally called into activity as the result of intwo cases of this kind 1. A servant girl poisoned her hand with a red paste with which she was cleaning A few days afterwards a crop of bullæ intermingled with ecchymosed spots came out over the wrists and forearm and continued to trouble her for seven years The other case was one of a medical man who punctured his right hand Three or four weeks afterwards an eruption of bullæ made its appearance on his thigh and was repeated from time to The outbreak was pretime for eighteen months ceded by feverish symptoms, there was a scalded sensation in the skin and the next morning a fully developed bulla would be discovered"

I will not attempt to refer this case to its appropri-Assuming that we are justified in calling this the re- ate section as pemphigus vulgaris or pemphigus folia-I will leave that for the dermatologists

The special characteristics of bullæ on the con junctiva, if there are any, must also be left for those who have the privilege to observe them I can find practically no direct statement of a well observed All the writers on the subject say that such the conjunctiva and the constant friction of the parts, their character would be still more fugitive on I certainly saw one on the inside the conjunctiva It was about 3/4 of an inch long of the left cheek and 5% wide It was moderately distended, the edges terminated abruptly, there was no manifest inflammation around the edges, and it did not seem to give any serious inconvenience The contents were turbed as seen through the walls of the bleb

I have no evidence to offer as to the definite histo logical changes which occur in such cases I can

The question of diagnosis in its early stage, from

¹ McCall Anderson, 1887, p 255

the evidence at our disposal, must be difficult W Lang, in speaking of the one undisputed case that he presented to the Ophthalmological Society of the United Kingdom, confesses he had not recog nized it until Baumler directed his attention to it Landolt, in reporting a case, says it passed through the hands of Sichel senior, Liebreich unrecognized, and adds, that having had the opportunity of seeing the patient for several months he was convinced that the case was one of pemphigus Von Arlt says that one of the cases he refers to had been regarded as an obstinate manifestation of syphilis until it was recog nized by a dermatologist W Lang' says, in speaking of Steffins' case, "only once was a vesicle seen on the conjunctiva, and this occurred on the skin like shrunken lower conjunctival sac" Under these cir cumstances the diagnosis must be conceded to be difficult I have no suggestions to make

As to treatment little or no definite information can be offered, at any rate such as is based on pre I should say that any measures vious experience with which the surgeon is most familiar in the use of for the relief of an inflammatory condition of the mucous membrane, diluted so as to conform to the supersensitiveness of the eye, would be considered an appropriate treatment, taking as a criterion of applicability, that the treatment should leave the patient more comfortable, and that independent of any narcotic influence Of course if it were possi ble to anticipate any such disaster as this, any surgical measures having in view the absolute prevention of friction of the lids with the eyeball would be justifiable

I have said that my efforts to detach the lids after they were completely adherent to the eyeballs were fruitless, and I quote from Messrs Lang and Juler, to show that their experience was the same W Lang says * "Unfortunately, like some cases of pemphigus,"—he was speaking of cases otherwise classified-"it was not amenable to treatment, although every means, both medical and surgical, has been tried, such as transplanting a conjunctiva and other mucous membranes into the shrunken conjunctival sacs M Juler says in reference to one case "The house surgeon attempted to separate the lids from the globe by incision, and performed the operation of peritomy The operative interference' he adds, "was most pernicious" I have seen some of the transplantations of mucous membranes for kindred cases at different stages in its history, and although they appear well at first a few months is sufficient to destroy all enthusiasm associated with the hoped for success Of course this remark does not apply to transplantations for other affections

Type IN School Books—The Austrian Minister of Public Instruction has issued a decree forbidding the use in public schools of books printed in small type. Small type is bad enough, but what can be worse than small German type!

THE GERM-THEORY OF DISEASE AND ANTISEPTIC TREATMENT

Kead before the Keokuk County Medical Society, Dec 6, 1887 and published by special request of the Society

BY W T ECKLEY, MD,

It is not that I would add anything new to the already voluminous literature on bacteriology, that I call your attention to the germ theory of disease, but from a keen realization of the fact that so intimately interwoven with current medical and scientific literature are such terms as bacteria, incubator, desicator, serum media, culture-media, antisepsis, asepsis, listerism and serial cultivation, and such prodigious proportions has the new theory already attained during the past decade, that, when we consider the overwhelming evidence, both direct and circumstantial, in favor of the new theory, we are compelled, if we would read intelligently, to bring order out of chaos, and at least gain a well formulated idea of what is and what is not the germtheory, and what does and what does not constitute modern antiseptic treatment, medical, surgical, obstetrical and gynæcological

The greatness of the theory demands our attention and solicits our calm and unbiased judgment Cocaine is only awaiting the next revision of the pharmacopœia to become officinal and take her place in our materia medica with her elder officinal The germ theory of disease is only awaiting that slow popular acceptance that ever embarrasses the advent of discoveries In medicine, naturalism, empiricism, eclecticism, humoralism, fluidism, solidism, chemicism, mechanicism, stimulism, spiritualism, phlogisticism, pyrexism, vitalism, neuro pathology and physiological therapeutics, have all undergone the same searching scrutiny that the germ theory is undergoing to day Never were the blue depths of space more carefully studied by the telescope than are the tiny microorganisms of air to day studied by the microscope Never did Columbus look more keenly across the waves of the Atlantic for the Indies. than did Pasteui and Tyndal traverse the field of the microscope for those infinitesimals that cause fermentation in wine, breed discontent in open wounds, or evoke direful epidemics of splenic fever might add, never did clouds more portentous appear on the medical horizon, that threatened to engulf the whole theory and practice of the healing art, than those little nebulæ which a few years ago, originated across the sea, and now overspread the medical sky on two hemispheres

The nebular hypothesis would explain the genesis of the heavenly bodies, and nebulous masses, hitherto considered irresolvable, have been resolved by the Rosse telescope and their stellar identity demonstrated. The germ theory of disease would not, nay, in the nature of things could not, explain the genesis of the myriad microorganisms that fill sea and air with their ubiquitous presence, but vital phenomena formerly attributed to spontaneous generation, were resolved by the microscope, and simultaneously were added to Sylva's already opulent pos-

Oph Soc of the United Kingdom, Trans 1886 p 128
Locus Cit

sessions, thousands and thousandsof micrococci and malariæ of malarial fever, the bacillus tuberculosis bacıllı

Having thus explained the aim of my paper, allow me to call your attention to the body of the argument under the following headings

r What is the germ theory of disease?

2 What is antiseptic treatment?

3 Wherein do these concern the general practitioner of medicine?

4 Wherein will the theory influence the practice of medicine?

The germ theory of disease is the doctrine of contagium vivum It centralizes in living, organic, vegetable, parasitic, microorganisms, of various proved that an infectious disease is due to a microgenera and species, the unique property of generating under favorable conditions, in organic beings, certain pathological and physiological processes Koch demonstrated in splenic fever a causative germ which he denominated bacillus anthracis, Klein a bacillus in typhoid fever, and quite recently Dr Pasteur demonstrated so called useful bacilli to which he attributed the following physiological char-No 1 Digests albumen No 2 Dis acteristics solves fibrine No 3 Dissolves gluten No 4 Co- former case " agulates milk No 5 Dissolves casein No 6 Transforms starch into sugar No 7 Changes lac-ling germs and the germ-theory from current medical tose to lactic acid No 8 Changes glucose to alcohol

According to the theory, these parasites constitute an ever-present legion whose individual functions are well specialized, although the votaries of their cause have not yet furnished a Linnaeus to classify their natural orders and formulate rules for the determination of their sex

As certain seeds sown in the warm zones yield the delicious fruits of the tropics, but sown where atmospheric and telluric conditions are unfavorable, perish by the wayside, so these vegetable germs, whose habitat is our atmospheric air, demand favorable environment for the reproduction and propagation of their species race—and the majority of which are harmless, generates phenomena of its own kind Just when and where the Adam bacillus came into existence, the germ theory no more explains than does the nebular hypothesis explain the origin of the "self-luminous substance diffused through space," which afterward became the starry universe. Here the world revealed by the microscope, and the million worlds re vealed by the telescope—strange and wonderful ex tremes—revert alike for the story of their birth to Holy writ

The nomenclature and classification of bacteria are imperfect in proportion to the darkness which Zoph distinguishes 1st, envolves bacteriology spherical, 2d, rod shaped, 3d, filamentous, and the general germ-theory was Dr Lister, who, thoroughly imbued name for germs, while the expression bacillus is used in a generic sense and applies to specific germs supposed to sustain a causative relation to certain pathological phenomena in the economy Thus the comma bacillus, according to Koch, is by him is to this day known as listerism in surgery pathognomonic of Asiatic cholera, the bacillus All antiseptic surgery is listerism, but not all listermalandriæ of glanders, the bacillus lyssæ of hydro- ism so-called is antiseptic surgery Listerism means phobia, the bacillus lepræ of leprosy, the bacillus absolute freedom from infectious germs

of tubercle

Micrococci are bacterial germs found in decomposition, and are very hairsplittingly differentiated from their bacillar brethren by bacteriologists, being classed as 1st, septic, 2d, zymotic, 3d, pathogenic, 4th, specific, and 5th, chromogenic Micrococci are considered causative in pneumonia, diphtheria, gonorrhæa, vaccinia and variola The specific nature of bacilli seems established, while micrococci are considered causative in suppuration and putrid processes

Dr Koch says "In no instance has it been organism, unless the microorganism in question is present, either in the blood or tissues of the animal affected with the disease, after death organism must be capable of cultivation in some suitable media outside of the body, and after being cultivated for several generations, must cause the same disease when introduced into the body of a healthy animal Finally, in the body of the last animal, the same parasites should be found as in the

I gather the following detached thoughts concern-"That the germ theory is now an esliterature tablished fact, that decay and putrefaction are due to living germs, that many species of germs are constantly present in the air, that disease germs are not generally present in the air, that these latter are prone to confine themselves to one locality, that they are carried from place to place by fomites, air and water, that disease geims multiply in contact with moisture, that some germs are indigenous to certain countries, that all the leading hospitals in the world have adopted the antiseptic practice, this being obligatory in the Prussian army and navy "

Here then we have spread out before us, in micro-Each germ—an ephemeral scopic proportions, the agents causative of many Bacillus and micrococcus, tenacihuman maladies ous of vitality, decimate society by typhoid fever, or scourge a trembling and panic stricken population Here the exanthemata bear with Asiatic cholera testimony to their presence, and there weeping mothers, rigid quarantine, prompt disinfection and newlymade graves, are silent witnesses to the late and awful visitation of micrococcus diphtheriæ

> The germ-theory was first announced by Pasteur, and unhesitatingly adopted by Lister and others In this theory were broad fields for therapeutic indications, and the development of these indications is radically changing the practice of the healing art in

all civilized and progressive Nations

with the idea that microorganisms, ever present in the air, and coming in contact with open wounds, cause suppuration and abscess, conceived the idea The practice instituted of an antiseptic dressing

section of the American Medical Association on "Wound Dressing" said "Such is the rate of progress, especially in the line of bicteriology, that surgical works published but five or ten years ago, are now considerably behind the times " He further adds—quoting from memory—"this is the bacterio logical era in medicine Probably the majority of the profession believe in antiseptic surgery, but none in listerism in extenso So well proven is antiseptic surgery say some, that a surgeon should be held liable at law for damages, if in the practice of surgery, where he had failed to use antisepsis his patient was not healed "

room be freed from disease germs, that operator and attendants be bathed, disinfected and clad in antiseptic garb, that hands of operator and as sistants be scrubbed in cor sub sol 1-1000, that the part to be operated upon be likewise treated, that all instruments be immersed in ac carb sol before operation that drainage tubes, bandages, protective, and ligatures be all antiseptically treated before operation, that the wound be antiseptically dressed

Concerning internal medicine, Dacosta expresses himself as follows "Thus far it must be confessed we have had, as regards internal medicine, no suc cess in the search after agents which destroy the The articles proposed are as apt to poison germs the patient as the microbe Some would be even more destructive, and none can be as directly and completely brought into contact with parasitic life in the organs or in the blood, as surgeons bring them in conduct in their antiseptic treatment of wounds But must we despair of conquering and injuries these germs? It is not too sanguine to anticipate that if their paramount importance be fully established, the means of their destruction will be found "

Dr Ellzey, on "Antiseptics in Medicine and Surg-"It is for the destruction of bacteria and their spores that we use antiseptics So long as we are dealing with refuse materials and substances outside the living body, we may use disinfectants in any stand the action of efficient germicides Man cannot withstand the toxic action of any known reliable germicide in germicidal strength Germicidal medicine, therefore, is beyond the possibilities of the We cannot kill bacteria or micrococci, still less can we kill the spores after they have gained access to the living body Our therapeutic measures must have reference to the possibility of rendering the fluids and tissues more or less unfavorable for the development of pathogenic bacteria. It is not possible to make of the fluids and tissues of a man's body a germicidal pickle until after the man is dead "

read you the following abstract from Garrigue's "An- labor is conducted in well managed lying in hospitals tiseptic Midwifery," on preventive measures in puer-

Dr Stubbs in his recent address to the surgical have a full bath at the beginning of labor, that enema of soap suds be given, that hands of obstetrician be thoroughly scrubbed in soap and water, and afterwards in cor sub sol, that hand and everything coming in contact with the genitals be previously immersed one minute in cor sub sol 1-2000 before touching the patient, that buttocks, thighs and vagina be washed and scrubbed with sol cor sub 1-2000, that no lubricant except carbolized glycerine 3 per cent be used, that in common cases the fingers be not introduced inside the os, that the presenting part, as it opens the vulva, be covered with compress wrung out of cor sub sol 1-2000, that the placenta be expressed by Antiseptic surgery provides that the operating Crede's method, that the vaginal cavity, after delivery, be injected with warm sol cor sub 1-2000. provided said cavity was at any time during or after delivery, entered by the hand, that uterine injections 1-4000 cor sub sol be given, provided this cavity were entered by hand or instrument, that patient be washed in 1-2000 cor sub sol, binder and antiseptic occlusion dressing applied, and same be changed three times daily in private practice, that genitals be flooded with cor sol after urination and defecation, that no vaginal injection be given in normal cases "

All these antiseptic precautions, whose foundation is the germ theory, and actually reduced to practice in some of the leading hospitals of the world, and endorsed by the leading spirits in medicine, surgery, obstetrics and gynecology, both in Europe and America, evidently mean much if they mean anything at Granted that antisepsis is more easily carried out in hospital than in private practice, does not the question arise are the beneficiaries of the former any more entitled to the beneficence of a treatment which, during the past decade, has reduced the mortality rate 60 per cent, than are the landed and intelligent element of the latter? In our large humanitarian charity hospitals we find only too often an inappreciative, would-be lawless congregation of society's choicest slums, sirens, embryonic dynamiters and revolutionists, cared for in palatial environment, amid all the regal splendor, appointment and antisepticism possible in the reach of American munifidegree of concentration necessary to secure their cence and modern science. This is all nice and efficiency, but within the living body, we are met by proper, perhaps, and certainly is the highest tribute the limitation of the power of the organism to with- to our free and charitable institutions, but do we find commensurate antisepticism thus efficiently carried out in private practice among the veritable fosterers of the aforesaid charity institutions? If not, why not?

From a medico legal standpoint, the practice founded on the germ-theory of disease continges the general practitioner's most vital interests, and the question arises are we longer justified in following the moderately successful beaten paths of the past, or shall we harmonize our treatment with the teachings of the germ theory? In the event of death from puerperal septicæmia, e g, would the shrewd prose-At the expense of your indulgence, allow me to cution ask-after having enlightened the jury on how

"Doctor, before assuming charge of the case, did peral infection It provides that the patient should you see that your person and clothing, and that of all your attendants (the 'granny women,' of course), were thoroughly bathed and scrubbed in soap and water, and afterward in a solution of cor sub of the strength of 1-2,000?" In nine cases out of ten the answer would be no

"Doctor, did you bathe the patient, and wash the abdomen, buttocks, thighs and external genitals in the antiseptic solution aforesaid?" In ninety-nine cases out of a hundred the answer would be no

"Doctor, before each digital examination did you immerse your hand in the solution cor sub and let it remain there for one minute?" How often would your answer be yes?

"Doctor, did you cover the presenting part on its emergence from the vulva with compresses of cor

sub?

"Doctor, after delivery, did you wash your patient in a solution of corrosive sublimate and apply an

"Now, doctor, you may describe the occlusion dressing to the Court and jury, and Prof Garrigues, our expert, will tell us whether he uses that kind of occlusion in the lying-in hospital of which he has by feet and inches, comprehending at most only a charge

"Now, doctor, is it not a fact that you went directly from Sam Smith's, where you were attending a case of phlegmonous erysipelas, and without changing your clothing or washing your hands made an examination of this woman, and told Susan Bangs The efficient artificial antiseptic you can use at pleashere that it was a malpresentation, and turning would probably be necessary?

"Doctor, do you recognize the erysipelatous contagium causative in the production of puerperal septicæmia? Prof Garrigues will enlighten the Court on this point "

These questions might be continued by hypothesis indefinitely to surgical cases, but for our purpose the point is fully developed, and at any rate the partu-rient canal furnishes all the conditions of an open wound, the one being as readily susceptible to infec-If from no other motive than a tion as the other self-conservative one, I argue that our only safety in medico-legal cases lies in rigid adherence to the principles of the germ theory, for then, and then only, will we be able to avoid the opprobrium and penalty which the majesty of the law attaches to the dual crime of omission and commission

Derogating from the concession made above for argument's sake-that antisepticism is more easily carried out in hospital than in private practice—I am convinced that the opposite lies within easy reach of each and every live practitioner in the country, and why? Because we, as a class of country practition ers, are surrounded by illimitable opportunities and advantages, as yet poorly developed, it is true, which are made possible in large general hospitals only by laborious detail which in itself divests the whole system of half its efficacy

Let us notice the modern typical general hospital -with its elegant appointments, magnificent operating rooms, water supply, efficient school for training nurses, long list of competent physicians and surgeons, spacious amphitheatres, hosts of trained nurses faithful in the discharge of every duty, pavil-

ions and wards, strict antiseptic regulations-in fine, its hospital perfection. No human work is perfect Did we consider its proximity to one of the greatest railroad centres of the world? Did we remember that only charity patients gain admission to its wards? Did we consider the physical depravity and moral degradation of 90 per cent of its intramural invalids? Did we consider the gonorrhoal, syphilitic, scorbutic. consumptive and exanthematic effluvia that necessarily contaminates the air from such a medley congre-

Divested of its superfluities, things that to it are necessities, but to the country practitioner superfluous, because here the necessity does not exist for battling against such hosts of pernicious germs, let the country physician carefully consider the analogous and essential points of difference between his quiet rural practice and that of his hospital contemporary, as foreshadowed in the preceding paragraph

In the first place, gentlemen, you are all house physicians to hospitals not hemmed in by circumscribed architecture, whose dimensions are estimated few acres of surface, and accommodating hundreds, but of hospitals miles in extent and composed of hundreds of pavilions, having few inmates, each patient separated from the others by miles of atmospheric oxygen, nature's most efficient antiseptic. The class you deal with is the elite of society contaminated by a few dregs Your water supply may always be first in quantity and quality

It is a mistaken idea that hospital practitioners enjoy an autocratic authority over their patients not attainable in private practice Your word must and will command both respect and obedience, other-You can enwise you cannot meet with success force cleanliness, and make quite efficient nurses from members of the family This must all be preceded by much toil on your part, but still it is pos-Remoteness from great commercial and manufacturing centres, fresh air, pure water, a minimum of diseased patients in one place, unadulterated food, and milk especially, are things ever in your favor, and with difficulty attainable in large general hospitals. In hospitals the nurses are educated up to a keen appreciation of antiseptic precautions, and the physician's high authority In the country these prerequisites do not come about spontaneously are creations of time, perseverance and popular edu-Let us see how this latter is brought about cation

An old adage says "Make haste slowly," and it indicates the only rational plan of procedure in engrafting on the minds of the masses the importance of antiseptic treatment Until this shall have been accomplished, the orderly antisepticism in our wellregulated hospitals must continue to show us a smaller mortality rate than we, with all our boasted pure air, unadulterated milk and farcical germicides The medium ground of antialone can accomplish septic perfection, then, lies between the "Slough of Despond" of the country practitioner, and the elevated plateaux of hospital practice

The presentation and demonstration of any new

theory to the masses is a task not easy of accom-In presenting the germ theory to the people, the laboriousness of the task must fall on the general practitioner The masses cling with wonderful tenacity to the traditions, superstitions and Herein is the charlatan's ideal doctrines of the past and most impregnable stronghold You can convict the murderer, punish the trespasser, imprison for grand larceny, rape and seduction, but where can you find remote provinces and territories an advocate nimble enough of tongue to shake in the popular mind that innate and implicit confidence every department of medicine which mankind in general place in the salves, embro cations, poultices and nostra of traditionary brilno more responsible therefor than are we for those features and idiosyncrasies which distinguish us as urethra man from man

Within the memory of you all, there occurred in a certain section of our country an epidemic of puer peral septicæmia, during a time when glanders was prevailing among the horses of the same locality Every parturient woman died at that time loving husbands day after day cared for their horses, with their suppurating submaxillaries, and also devoted time and attention to their parturient women have met the same opposition as now

I once attended a patient in a condition of chronic blood poisoning from the absorption of pus from a carious bone I suggested removal of the carious bone, and a thorough bath To the former he demurred on the ground that an old lady had told him "healing of such things would surely kill" Against the bath he urged the objection that thirty years ago, while yet in Germany, he had bathed, and as that made him sick he would never try the same expedi ent again

Even in the time of Shakespeare men were egotistic on medical topics, and the same mania is ludi crously present to day, even among people otherwise cultured Who has not been talked full of cancer issue with you on the rational treatment of fevers? Where is the divine who at some time of his career has not subscribed to the efficacy of some patent nostrum as potent as Lydia's or Warner's? Where is the teacher in our public schools who would say "call a physician," instead of "My grandmother learned from an Indian woman how to cure sore throat" Would an untutored boor presume to give you advice in adjudication? Granted the affirmative, would you institute proceedings on this fool's opinion before consulting a competent attorney? In the painful event of a monstrous carbuncle on your nose, would you not try everything from skunk oil rendered in full moon to turnip salve stirred three times with a forked stick, before consulting a competent physician?

Despair we need not, for analogy alone shows medicine to be not less progressive than her sister In polity the paternostic and communistic ideas of the old world have given place to fine and orderly systems of government In religion idols

culminated in gigantic educational systems, the wonder and admiration of the age Modern chemistry bears no facial resemblance to alchemy, her grand-The telegraph and telephone have made mother journalism a great popular educator Jurisprudence, a delicate exotic plant at the beginning of this century, having gained new strength on American soil, now sends the strong arm of the law into the most

Equally important advances have been made in Anæsthesia both local and general has wellnigh reached perfection, divesting formidable operations of all their pain and liancy? I believe we all have the infection, and are half their terror. In the hands of Neumann and others, electricity dissolves organic stricture of the The surgeon's knife invades the abdominal cavity, even the brain itself Opium, calomel, jalap, quinia, and a number of other drugs used by the older practitioners will stand the test of time, modern discoveries making their virtues more valuable and less questionable. The cold bath in typhoid The fever is destined to abandonment Antipyrin enjoys great popular favor

I would suggest that, as live and energetic practitioners in the country, we keep posted on the latest If the germ-theory had been advocated then it would scientific medical thought, and be ready to accept the truth at all times I consider it a duty we owe to our patrons and patients to give the sick the advantage of any hygienic regulation, any therapeutical agent, any meritorious medicament that may prolong life The people must be educated up to modern ideas of prevention of disease, care of health, and the value of scientific investigations Teach them that physicians understand the fullest details of physic as tradesmen understand their avocations Teach them that food, water and air may, under certain condi tions, be fertile sources of disease, solicit their cooperation in times of epidemics, gain their confidence, give them no time for grandmotherly lore, and I am sure they will respond with refreshing alacrity

Hastily reviewing the germ theory of disease, the cures? Where is the layman who would not take doctrine of contagium vivum, long ago enunciated by Pasteur and Tyndal and others, practically applied to surgery by Dr Lister, to obstetrics, gynecology and general medicine by hosts of careful observers in Europe and America, its principles gradually finding bold expression in the efficacy of its achievements, assuming an antiseptic garb it stands open to day to the keenest scientific criticism of the age tice in surgery has wonderfully reduced death rate from infectious germs, and the whole healing art is feeling the impact of the new treatment germs cause disease A thousand microscopes are identifying and classifying these germs, a thousand chemists are endeavoring to find agents capable of destroying these germs Quinia destroys the bacillus malariæ Corrosive sublimate effectually protects open wounds The final analysis of any new theory is made by the general practitioner Do not become discouraged by the wayside, but lend a helping hand to science

Leaving the present status of medicine, with all its have been dethroned and Christianity preached to the imperfect diagnostic and therapeutic resources-of heathen The "lickin' and larnin'" of the past has course ever grateful for whatever of ment and preci

sion in diagnosis and treatment we now possess-let us pass in hasty review those instruments which sep arate medicine into ancient and modern the clinical thermometer, the stethoscope, the ophthalmoscope, the laryngoscope, the nucroscope

The stethoscope makes possible wellnigh exactitude of diagnosis in cardiac and pulmonary disorders The clinical thermometer reduces fever to simplicity The ophthalmoscope places the theory of inflamma tion on an immutable basis The microscope, more than any other product of man's ingenuity, makes the etiology of disease both rational and scientific On it, and it alone, rises that vast superstructure of recent times—the germ theory of disease and anti-The physician of the future must septic treatment be as expert in the use of the microscope as is the physician of the present in the use of the stethoscope The microscope reveals new worlds to science Under its powerful lenses we behold a fertile field of micro scopic vegetation, wonderfully diverse in structure. yet eloquent enough to call forth Linnæus's spirit from the shades and demand for her multitudinous genera botanical classification

In the near future, when anatomy, chemistry and physiology shall have completed a few more biological revolutions, lingual inspection and radial palpation will be quite insufficient data for procedure against bacilli with quinia and calomel Our empiricism will elide into rationalism, and our present diagnostic crudities will remain on the therapeutic nomenclature of the future as ancient names preserve their heroic derivation Greater precision in diagnosticating disease will proportionately enhance prognosis therapeutics is as yet a thing of embryonic magnitude First must the whole field of empiric drugs be traversed in search of parasiticides These latter, to be available, must meet two vital requirements they must be innocuous to the fluids and solids of the body, second, they must devitalize germs and their spores or render the animal innocuous against their presence

THE HYGIENE OF PHTHISIS

A Paper read before the Philadelphia County Medical Society, January 11, 1888,

> BY LAWRENCE F FLICK, MD, OF PHILADELPHIA

For twenty-four hundred years, and probably during all preceding ages, some of the best minds the the world has ever produced have studied and coped with phthisis, and, in spite of the accumulated knowledge of all those years, about one-fifteenth of the human family falls a victim to it yearly There is not a clime in which it does not exist, nor a period of life in which it does not occur The rich and poor, the civilized and uncivilized, become its prey Since ket unless heavily endowed by purse or landed es it cannot be cured, it is but reasonable to try to prevent it, and much has been done in this direction What percentage of deaths during the last century

1 In 1880 the percentage of deaths from phthisis in the United States was 12,059 in every 100,000, and in England 9 141 in every 100 000 Taking these two countries as a basis we may assume that, the world over, about 7 per cent of the deaths are due to phthisis

was due to consumption in the days of Hippocrates cannot be known, but that it was large would appear from his words in speaking of a certain period, viz, that "consumption" was the most considerable of the diseases which then prevailed, and the only one which proved fatal to many persons " Writers upon the subject subsequent to Hippocrates are equally barren in statistics until about the seventeenth cen-The first figures that I have met with are in a foot note in Dr Bateman's Diseases of London, in which a Dr Heberden is quoted as saying "that' in 1669 the deaths from consumption were to the whole as one to about six and two tenths, in 1749 one to about five and five tenths, in 1799 one to about three and eight tenths, in 1808 one to about three and six tenths, and in 1818 one to about four and two tenths" In the beginning of the present century Dr Willan, in his statistics on the diseases of London, gives the percentage in his private practice as about one in three, and says that the proportion in the general mortality reports for the winter months at that time varied from one-third to one half 1880 the percentage of deaths from phthisis in England was 9,141 in every 100,000, which indicates a marked improvement This improvement is not due to a larger number of cures, but to a more successful prevention that follows in the wake of civilization

It is scarcely disputed by any one at the present day that consumption is due to the bacillus tubercu-Concomitant with this doctrine is necessarily that of its contagiousness, and whoever accepts the one must accept the other And why should it not be accepted? It is the reasonable doctrine, and one consistent with all modern teachings about dis-It is, moreover, the only doctrine that can explain all the phenomena of the disease without appealing to one's credulity, and upon the assumption of which we can ever hope to construct a barrier to the progress of the disease

Heredity ought to be out of the question at the present day It is an unreasonable theory, and at variance with all modern knowledge about the etiology of disease Its complete eradication from the public mind is one of the first steps necessary in a sanitary crusade against phthisis So long has it held sway, and so thoroughly has it been woven into our literature, into our ways of thinking, and even of acting, that it has actually become a remote cause of Men and nomen are daily dying victhe disease tims of consumption because they have not the courage to escape its clutches Their grandparents or parents, their uncles or aunts, or somebody in their families has died of the disease, and it is a foregone conclusion that some day, they will die of it too They are tabooed by society as fore ordained victims, they are refused life insurance on the slightest pretext, and are at a discount in the marriage mar-Their lives are one continuous worry lest the disease overtake them, and yet they do nothing to

avoid it, or the depressing influences which lead to

² Francis Adams' translation page 353 ³ Historical Survey of the Diseases of London, page 22 Thomas

If they do finally succumb to the disease, their matter in the blood in its production

Somewhat akin and often confounded with hered ity is the doctrine of predisposition That some families are more apt to develop certain diseases than others is beyond dispute. What this predispo blood, the nerves, or tissues, is as yet one of the hid den secrets of nature and reappear, or may disappear entirely. It some times goes with one or the other sex, and sometimes tion accompanies certain complexions and features Whilst it often exhausts itself by the laws of survival, it may also be generated de novo by the modes of died of consumption The tight lacing girl, life and habits of the parents the pale faced, dissipated young man, the overworked store girl and factory hand, the tea drinking, bibbling servant girl, the drunken father, the half starved, badly clothed mother—these are some of the progenitors of predispositions of phthisis

So much in brief about the theories on the etiology Their consideration has been neof consumption cessary in order to study intelligibly the means for

its prevention

Both in theory and practice we find that consumption, though contagious, is but mildly so This is, in my estimation, not so much due to the inefficiency of the bacillus tuberculosis as to the withstanding The bacıllus tupower of the lungs of most people berculosis never finds a nidus in a healthy lung—by healthy, I mean not only freedom from pathological change, but a strictly physiological condition in which every function is properly performed the brain, I believe the lungs may be functionally abnormal, and yet there be no pathological change discoverable There is a very close relationship between this functional abnormality of the lungs and the digestive apparatus, and, in a sequential way, the whole nutritive system It is upon the stomach. then, almost as much as upon the lungs, that much depends in the prevention of phthisis The stomach is usually the first traitor in the human economy Through its derangement many diseases gain entrance into the body. When the stomach fails to perform its work, the lungs will soon do the same lungs become a proper soil for the bacillus tubercu-Every care should therefore be taken to keep the stomach healthy, and to do this a sufficient and proper supply of food is necessary Too much food is as injurious as too little, and improper food worse in the power of everyone to avoid phthisis When the stomach is filled with indigestible food, nutrition is not only withheld, but the its work for some time thereafter

It is generally in overfed and improperly fed people that we have what is called galloping consumption Though apparently well nourished, their en

It is from this class of people education and that of the public have been factors that the mortality list from consumption is kept so high in America, and it is chiefly the foreign element in our population which constitutes the class deaths from consumption in the United States are nearly twice as numerous among the foreign population and their children as among the children of the sition consists in, and whether dependent upon the native born. In Rhode Island, according to the health reports of that State for 1880, one person in It is certain, however, that every 486 of native parentage dies of consumption, it can be transmitted for generations, and that, like while one in every 286 of foreign parentage dies of complexion and features, it may go to only certain the disease. According to the United States census members of a family, may skip a generation or two reports for 1880, out of every 1,000,000 deaths, 242,842 males and 302,046 females die of consump-This represents all nationalities and colors Among the colored race every million deaths repre sent 248,179 males and 326,973 females as having Among people of Irish pa rentage 309,507 males and 375,636 females die of consumption to every million deaths, and among people of German parentage the victims of the disease number 249,498 males and 254,958 females to every million deaths It will be seen that the largest percentage of deaths from the disease is among Irish immigrants and their children. This is usually ascribed to the change in climate Ireland has a much damper climate than America, and therefore one better suited to the development of phthisis real cause for the larger mortality from consumption among foreigners, and especially among the Irish, is the change in diet At home they have been accustomed to a plain, healthy diet, and when they come to this country they at once take to the varied heavy Where they have eaten little diet of Americans meat at home, they eat it in profusion here they have drank good milk and eaten vegetables at home, they drink teas and coffees and eat spiced foods here They soon become thorough Americans in their stomachs, and even outdo the natives The consequences are indigestion, malnutrition, tu-The German, though frequently pursuberculosis ing a similar course, is often spared by his characteristic thrift and economy He partakes more sparingly of the good things that come in his way, because of his anxiety to prepare for a rainy day His fondness for beer, a beverage that he manages to secure wherever he goes, may likewise have some influence in shielding him against phthisis

Sufficient fresh air, sufficient food, and sufficient A vicious circle is established, and they mutually rest and sleep are the watch dogs of health, and derange each other Malnutrition follows, and the where they are on the alert consumption can never Bacilli tuberculosis may permeate the air. but they can do no harm Could civilization reach such a stage of perfection as to make it possible for every human being to have all these, it would be condition of things is, however, impracticable therefore becomes necessary not only to deprive the stomach is unfitted for the proper performance of bacillus tuberculosis of its proper soil, but also to de-This function belongs as well to stroy the bacıllus the State as to the individual Modern governments are beginning to appreciate the importance of preserving the health of their people, and are every tire appearance is suggestive of too much foreign where establishing health boards. As yet, however,

they do not go far enough grown beyond the mere art of prescribing remedies, it has become a science of protecting man against For the present we must content ourselves with disdisease and enabling him to attain his three score As government exists for the good of so ciety, it ought to avail itself more extensively of so powerful a means to its end The medical profession should be represented in our government There should be a Department of Medicine, as there is a Department of Agriculture, of Justice, of Fi Surely human lives are as valuable as those of dumb brutes, and we want protection as much against the invisible foes which threaten our health as the visible ones which threaten our hearths Unfortunately, public sentiment has not yet been educated to appreciate sufficiently the importance and benefit of sanitary measures, to make such a thing practicable Did such a department exist, and did physicians in good standing and with scientific attainments occasionally enter the field of practical not confine it, nor afford protection politics, and allow themselves to be returned to city benefit that could be derived from it, would be the councils and State and National legislatures, sanitary science might shed its light upon legislation, and many existing hygienic evils be remedied, many and their protection against contamination by the social and commercial customs and practices which sputa are daily generating predispositions to consumption inhumanity of separating the poor victims for years by the thousands might be corrected Plainer living from their relatives would come through proper instruction upon the be attained without isolation by disinfection subject and the instillation of the necessary sentiment in our schools Not only ought children to be taught what to eat and drink, but also how to prepare their food and what quantity they can take con-Nor should instruction upon sistent with health the proper adaptation of food to the time of life be Many children are already dyspeptic when their school days begin, and in their cases the benefit of instruction could only accrue to the The depressing influences of second generation private vices in children and young people could latter carbolic acid of corrosive sublimate solution often be averted by early instruction of the proper Such instruction should, of course, come through the parents, but parents are themselves fre quently devoid of the proper knowledge, hence the government might supply it to them by the free distribution of appropriate books and moral evils might be warded off were the proper sults, however, would be ample compensation for knowledge brought to the thousands who would the inconvenience and expense That there would gladly avail themselves of it, were it within their be a marked decrease in the mortality from phthisis

against the oppression of the strong One needs but more reliable reports would be made and fuller visit the parts of large cities where the poor live, and note the crowded, filthy courts, alleys and tenement houses, or take a stroll through a badly ventilated mate proper knowledge upon the subject. If ignorfactory or retail store in which the employes are compelled to work long hours in unhealthy positions, and with the most wretched accommodations for the ordinary demands of nature, or examine some of the articles of food and drink that are openly sold in tions in which they must necessarily contamshops and on the streets, to understand what could mate the clothing, food, and drink of others be done in the way of sanitary science by wise legis-The remedying of such wrongs and oppressions would very much lessen the mortality from makers, consumptive bakers, consumptives indeed consumption by withdrawing the soil necessary for in every calling of life These people do not sus-

Medical science has its development But all this is mere speculation of what we may hope will take place in the future cussing the weapons against the bacillus tuberculosis, which governments can use as they are now constituted

The usual methods employed by our boards of health for combating disease are isolation and disin-Against consumption, isolation if it were even practicable, would be both useless and cruel It is a question in my mind whether the existence of the bacillus tuberculosis is solely for the destruction of human lungs! In view of the universality of phthisis, it is not entirely a matter of fancy to sup pose that the parasitic life of the bacillus in man is incidental, and that it plays some useful iole in the great chain of transition between organic and inorganic matter It seems to be everywhere and to be wasted about by the air Isolation could therefore The only withdrawal of the relatives of patients from an at mosphere saturated with the germs of the disease, This would be a poor return for the dreadful The same results can moreover well equipped thorough boards of health and properly instructed laity, satisfactory protection could be secured to those who by family ties or otherwise are compelled to live in the same house with the afflicted The house, and especially the room, in which the patient sleeps ought to be frequently disinfected with some suitable germicide, and particular care should be taken to disinfect the sputa former purpose sulphur may be burnt or a spray of a strong solution of carbolic acid be used, and for the be placed in the vessel that receives the sputa carry out these measures in practice, consumption would have to be placed upon the list of contagious diseases returnable to the board of health, and the present force of existing boards of health would How many social have to be largely augmented The beneficial re-I have not the slightest doubt. Better opportuni-Legislation might in a measure protect the weak ties, too, would be afforded to study the disease, as statistics be gathered

Health boards should, moreover, help to dissem ance is the parent of vice, it is certainly the grand-It is a matter of daily occurrence parent of disease that people who have consumption, and who are constantly expectorating infectious matter, fill posi There are consumptive tailors and dressmakers, consumptive cooks and waiters, consumptive candy; pect for a moment that they are spreading the dis in prevalency by the various modes of life that they have consumption, or at least they persuade themselves that they have not got it They expectorate on the public highways, in church, at or cold or altitude exert much influence ought to be trught how to disinfect them knowledge should come from the government indoors in an authoritative an effective way place, no consumptive should be employed in any capacity in which he may contaminate the clothing, food, or drink of others To obviate hardships in such cases, the government should make provision out of the public treasury for the maintenance of such people as we have to give up their means of lively hood for the public good Whether this be done by pension or by offering an asylum must remain for political economists to decide No hesitancy is felt. in spending millions for the resentment of an insult to our national honor, or for some commercial ad Why should not something be expended in the protection of our people against the ravages of a disease which, in the United States, carries off nearly a hundred thousand people annually? Small remedies will avail nothing with so great an evil Our government should act, and act with gigantic strides

As regards individual effort to prevent the spread of consumption, it must necessarily be confined almost entirely to those who, by predisposition, are likely to develop it They should not only lead strictly hygienic lives in every particular, but should avoid everything that might even remotely lead to the disease, and avail themselves of every weapon The nearer they follow Nature in its dictates as to how to live, the better They must not revel in excess, turn night into day, overload their times ends in phthisis stomachs, overtax their brains, strain their physical generally, as their more favored brothers and sisters its victims do with impunity condition may not fall below par weapons to be used against the disease, it may be well to pass some of them in review

Chmate has always been looked upon as an im-Its importance, however, seems to me to have been much evaggerated soil is undoubtedly a contributing agent to the pro-

 v_{1cissi} ease, and take no precaution against doing so. They tudes of climate have really little to do with the disare often poor people who have to work for their case. Those people who are most exposed to the living, and who, as long as life remains in them, weather seldom die of consumption, whilst those have to earn its support. They do not even know whose lives keep them indoors are its most frequent victims Women, for example, die much more fre quently of the disease than men Nor does warmth the theatre, at their places of business or work—in ored people, who live largely in the warmer portions short anywhere and everywhere that is convenient, of the United States, have a higher mortality rate and the sputa dry up and are carried into the lungs from consumption than the white people, the ma-of others, or find their way into food and drink jority of whom live in the colder portions. In short, First of all, people ought to be made thoroughly consumption prevails everywhere, no matter what familiar with the infectiousness of the sputa, and the climate, where people are compelled, by the de-This mands of society, to crowd together and live much The practical lesson to be drawn from through the boards of health Physicians and public these facts is, that persons who are predisposed to teachers can do much toward creating a proper consumption by reason of the lives of their foresentiment, but they cannot convey the instructions fathers, or the peculiar circumstances surrounding In the next their childhood, ought to adopt a calling in life which keeps them out of doors and away from cities

There is a popular belief that alcoholic drinks are powerful preventatives of consumption all popular beliefs and superstitions, has undoubtedly some truth for its foundation But, as is usual with the bastard progeny of desire, this grain of truth has grown into such immense proportions as to have become the stumbling block of many No one that has carefully studied consumption can have a doubt that their exists some relation betweeen its production and the non assimilation of hydrocarbons Very many cases of phthisis have traces of sugar in the urine, and probably all of them have indigestion of heat producing food These symptoms frequently exist for months before cough and discernible local congestion sets in As beverages containing a small amount of alcohol present a most readily assimilating form of hydrocarbons, they no doubt, when properly used, buoy up the weakened system in its struggle against the bacillus tuberculosis, and often enable it to gain the mastery But what is good in modera tion is always hurtful in excess, and in this instance precipitates the very evil it might otherwise prevent Excess of alcohol and the adulterating ingredients in alcoholic beverages derange the stomach, and thus by interfering with nutrition predispose to consump-In this way a long life of hard drinking sometion

A very noticeable fact in the mortality statistics of endurance, and play havoc with their constitutions consumption is the predominance of females among This is in a measure due to the indoor They must lead correct, orderly life of women, but not altogether The many accilives, and be ever on the alert that their physical dents and diseases incidental to the physiological life As regards the of women greatly predispose to consumption are, however, nearly all of an avoidable character, and have their fountain head in carelessness during portant factor in the production and prevention of Women should be taught from childhood that these the menstrual period and during the puerpenum are sacred epochs, and that during them nature de-A non porous mands rest and especial care The Semitic six weeks' restafter childbirth is true to nature, and should duction of consumption, but not more so than of be observed by every woman who becomes a mother many other diseases Consumption occurs in every Lactation frequently predisposes to consumption, country and every climate on earth, being modified but usually in those cases which have made bad re-

coveries after confinement, and are in want of the likewise no provision, except in first class modern proper food and care which are necessary for a nurs-

Pulmonary gymnastics are powerful weapons against phthisis, and should be especially used by better remain at home, unless his home is in a large those who are unable to extricate themselves from the unhygienic surroundings and circumstances in which their necessities have placed them the use of a gymnasium is very desirable for practising these, it is not necessary volved is ventilating the unused air cells, and any combination of forced respiratory movements that than he would with small means in the most model will thoroughly inflate the lungs will accomplish this Gradually filling the lungs with air whilst retracting the shoulders and extending the chest or taking a deep inspiration whilst extending the arms above the head and expiring whilst placing them parallel with the body, are two simple exercises which do all hence the extremities ought never to be let get cold that is necessary and can be taken without interfering with the most busy life or causing fatigue habit should be made of thus ventilating the unused portions of the lungs, and it should be done at times when the purest air can be secured The most practical germicide that we as yet know of for the bacillus tuberculosis is fresh air, or, more correctly speaking, it furnishes the least favorable habitat for its development A better oxygenation of the blood is, moreover, secured by such exercises, the circulation is stimulated, and, indirectly, the digestion and disease assimilation improved

As regards the hygiene of phthisis, when the disease is once established, it is based upon the same disease they are, however, impracticable, and should principles as that for its prevention Sufficient nourishing food, and sufficient fresh air, these are the sine qua non The prime object in every case of phthisis should be to secure a good digestion and Everything that is done should be done with this object in view Good, nourishing and easily digested food should be taken in abundance, and every care taken that the stomach be not deranged by indiscretions in eating and drinking, or by overloading As soon as the body begins to nourish, the lung trouble will improve As an aid to digestion outdoor exercise is very important Without it the system cannot be made to use up a large Inasmuch as warm climates offer quantity of food greater inducements to keep invalids out of doors, and make bed-room ventilation a little more agreeable, they are highly commendable to consumptives, but they are by no means essential to their well-be- less chance for development A cold climate will do just as well if the patient has the courage to endure the discomforts en- to the progress of phthisis must be built, but it must tailed by it It is much better that a consumptive be a high order of civilization, a civilization in which have home comforts in the worst climate in the world, than that he be compelled to undergo the tortures of boarding-house or fourth-class hotel life live-which banishes want from the earth, gives In all warm climates the houses at a health resort are built for warm weather use, and no provision is made for the stray blizzard that occasionally comes ble from day to day, there is always a marked varia- ucation, and banish all vice and excess from the tion between day and night In consequence of world So long as the "summum bonum" of man's exthe rapid radiation of heat the houses become cool istence is to live at ease, gratifying every desire, and and damp during the night, against which there is tower head and shoulders above everybody else

hotels In many places suitable food is difficult to obtain even at the most extravagant prices all, the average person who has consumption had city, and then he should go into the neighboring country, where he can secure home comforts and Though plenty of suitable food Let him dress warm, take outdoor exercise whenever he can, eat plenty of The principle in- light, nourishing food, take ample rest and sleep, and he will get along much better in his native heath consumption climate

> It is important that the entire body be warmly clad in cold weather Either silk or woolen clothing ought to be worn next to the skin The circulation should be kept equable throughout the entire body, When the feet get cold the lungs become congested Rubbing the body with a coarse towel has a good effect in equalizing the circulation. The ancients recognized this fact, and laid stress on it "Balneum alienum est," says Celsus Sponge baths, if care fully taken, will do good They should, however, be taken in a warm room, and followed by a rest

> Sea voyages used to be highly recommended in the early days of medicine, and theoretically, at least, ought to be beneficial in the first stages of the The ocean offers a pure atmosphere, and frequently the salt air stimulates appetite and im proves digestion In the advanced stages of the never be attempted

> Gypsy life, or traveling through the country by easy stages and camping out, is most beneficial to consumptives, even in advanced stages cients had their patients carried from place to place In the territories most remarkable cures in chairs are brought about by this mode of living Persons unable to walk are hauled in wagons on improvised beds, and it is astonishing what a revivifying effect

constant exposure in the open air has

But, as said in the beginning of this paper, when consumption is once established it is rarely cured, and though much can be done to ameliorate the condition of the consumptive, the most important duty of the medical profession, at the present day, is to lend its aid in bringing about such a change in public and private hygiene as to give the disease

Civilization is the keystone on which the barrier charity for our fellow man is the guiding star-which teaches not only how to live, but how to let others everybody sufficient breathing space, and removes the foot of monopoly from the neck of the working man and the goad from his side, which will remove Though the temperature may be very equa- morbid ideas about dress, society, customs, and edmust be without the necessaries of life in order that the other half may revel in excess, so long as crowd ed tenement houses must tower in the sky in order to let palaces spread out on the surface, so long as soulless corporations can drive man to do more than a whole day's work for half a day's pay, and under simplex) circumstances and surroundings which are in conflict with every rule of health, so long as the rich lead and the poor follow in health ruining fashions and customs, so long as children have their minds made morbid and their bodies ill developed by school cramming processes, so long, indeed, will consump tion continue to be epidemic, no matter what pro gress scientific medicine may make

MEDICAL PROGRESS

THE CARLSBAD "CURE "-DOCENS DR JAWORSKI, of Cracow, gives in the Przeglad Lekarski, under the above title, some interesting details respecting the influence of the springs of Carlsbad on diseases of the stomach The author first emphasizes the fact that the majority of gastric disorders are due to an increased activity of digestion, and not, as had long been thought, to impairment of the secreting power of the gastric mucous membrane of the stomach, or to complete destruction of the digestive action refers to the publications of Reichmann in 1882, in which increased secretion of the gastric juice was said to be the cause of the disease, and also refers to researches on the disease of the stomach by Jaworski. Gluzinski, and others, which illustrated this statement Further investigations had shown by several facts that, in ulcerations of the stomach, hydrochloric acid was increased, and that hæmatemesis, as a result of ulcus ventriculi, was observed when the secretion of hydrochloric acid had risen to the highest point. The greatly lessened the danger of gastric ulcer springs of Carlsbad had been said to stimulate the secretion of the stomach, and to quicken the diges the water and the dried salts of Carlsbad increased the secretion of the gastric mucous membrane when ach given in small doses, when used in large doses, or when taken for a long time, they lessened the secre tion both of acids and pepsine, so that, after prolonged use of these remedies, the secretion was com pletely arrested without any great disturbances in the mechanism of the stomach Out of 232 cases which Dr Jaworski had examined, in 156 he found the cause of the gastric disorder to be increased secre tion of hydrochloric acid The good effect of the springs of Carlsbad in almost all diseases of the stomach was thus explained With reference to the indications for the use of the waters, Dr Jaworski, as the result of numerous internal examinations of forms of gastric diseases The use of the springs of glandular apparatus, by which the power of secreting Carlsbad is indicated i In increased secretion of hydrochloric acid was diminished, and thus a per-

importance, so long is one half of the human race the gastric acids during the time of digestion only (h) per secretia digestiva transitoria) In such cases the use of the Carlsbad waters lessens the sensibility of the mucous membrane of the stomach increased secretion of the gastric acids when the stomach is empty (hypersecretia hyperacida continua When the Carlsbad waters are used in such cases in small quantities, not only the normal but the functional and structural conditions were re-3 (a) In the third stage, which had established been called by Jaworski catairhus acidus v gastrothan hyperacida continua, where the secretion of hydrechloric acid had attained the highest degree, so that the acidity of the non digesting stomach was scarcely less than it is at the period of active diges-In these cases, disturbances of the chemismus of digestion and anatomical changes of the glandular apparatus, and even in the muscular layer of the stomach, were already present. The use of the Carlsbad water in large doses and for a long time, will diminish the acid secretion to a high degree, and produce a considerable improvement in the disease, (b) As, according to all the experimental results which had been hitherto obtained, the round ulcer of the stomach (ulcus ventr iculi rotundum) was attended with the acid catarrh just mentioned, and was probably produced by it, the favorable effect of Carlsbad water in cases of gastric ulcer was satisfactorily ac-counted for 4 Besides the continual increase of the acid secretion, there was still another abnormal He and periodic hypersecretion of hydrochloric acid of nervous origin The difference between these forms consisted in this, that in the former the increased acidity was met with at each internal examination, whereas in the nervous form the increased acidity was only occasionally observed In this latter the Carlsbad water might be advantageously employed 5 In certain neuroses, sensory (hyper asthesia, cardialgia) as well as motory (vomitus nervosus), Carlsbad water is not less useful Dr Jaworski does not remember any single case in which the water had diminution of the secreting power of the stomach been vomited, and this was also true of cases in The which no other liquids, and even no medicament. could be retained in the stomach. In such cases the good result was to be ascribed to the mild effect of tion Dr Jaworski, however, observed that, although the warm and diluted alkaline solution and the free carbonic acid on the mucous membrane of the stom-The use of the waters of Carlsbad is contraindicated in 1 The fourth stage of the secretory debility (insufficientia secretionis acidæ), when the acid secretion was insufficient even during digestion 2 The last stage, which had been called catarrhus mucosus, when hydrochloric acid and sometimes even pepsine was quite absent even during digestion Even in these cases it was worth trying whether the glandular apparatus could not be irritated to secretion by small quantities of Carlsbad water Jaworski further points out that the effect of Carlsbad water was not only a symptomatic one, as believed by many, that it not only neutralized the hyper acidity of the gastric contents, but that it also produced the stomach, distinguished the following stages and permanent anatomical and functional changes in the

manent benefit obtained Whether Carlsbad cure was indicated in a given case should be learned from the internal examination of the stomach. During the time the water was used the progress of the case must be determined from time to time by internal examina It had been proved by several experiments that a too protracted use of the Carlsbad water and salt finally led to complete loss of power of secreting hydrochloric acid On the other hand, it was a known fact that there was no strict causal connection between the subjective disturbances and the object tive changes in the stomach, so that no sure conclusion could be drawn from the former as to the condi- shape, size and color) were soon mastered tion of the stomach It was therefore absolutely necessary to examine the contents of the stomach (11/2 year) at which vision was lost, the very pro chemically from time to time in order to obtain a longed period (upwards of sixty years) of blindness, true idea as to its secreting power, so that it might and the extremely gratifying results of the operation, not be completely destroyed. It should also be borne and it has an important bearing upon some interest in mind that atrophy of the glandular apparatus predisposed to the development of neoplasms in the stomach Korczynski and Jaworski had shown (Klinische Befunde bei Uleus Carcinoma und Magenblutungen, Berlin, 1887) by statistics that malignant neoplasms of the stomach coincided with the above mentioned condition of mucous catarrh, and that the meeting of the New York Surgical Society, on there was probably a more or less close causal rela tion between them -British Medical Journal, January 14, 1888

BLIND SILTY YEARS, IRIDECTOMY, RESTORED TO SIGHT, GOOD COLOR PERCEPTION -DR DAVID MC-

Keown reports the following case

in August, 1883, been blind upwards of sixty years When 1½ year old he lost the sight of both eyes from an attack of small pox perception of light, but the projection of the left was rather to the outer side of the anterior superior spin-There was a dense central opacity extending into the upper half of the left cornea, and the iris was adherent all round to the margin of the opacity performed an iridectomy opposite the transparent cornea above, the only place available for such a I showed the patient in the Ophthalmologpurpose ical Section at the meeting of the British Medical Association held in Belfast in 1884, t e, about a year The condition then was The cor nea opposite the artificial pupil was a little milky, the use of the eye was attended with some difficulty -the pupil being above, and the eye before opera tion having had a somewhat upward position, a considerable effort on the part of the inferior rectus was required (a tenotomy of the superior rectus, alone or combined with the advancement of the inferior rectus, would doubtless be advantageous) presence or absence of the lens could not be determined, the result of a trial with glasses was practically nil, the vision which he had gained by the operation enabled him, when in the streets, to dis pense with the stick which, before the operation, was a necessity, he could count objects of 11/2 line in diameter when about a line distant from each other, he recognized comparatively small differences in size His color-perception was remarkably good, he dis- and an old cavity in each lung -New York Medical tinguished not only the well defined colors, but also Journal, January 21, 1888

different shades of the same color, sometimes even when these differences were not very marked color education was very rapid. When I first spoke to him on the subject I found that he was pretty familiar with green, blue and red Some patients in hospital had given him instruction He came to know green by examining a quilt of that color which was upon his bed, blue by inspecting a blue and white striped shirt which he wore, and red from seeing a lining of that color in a hat He afterwards came to know yellow, brown, etc., from having these col ors shown to him a few times The coins (involving

This case is probably unique, seeing the early age ing questions regarding the conditions under which the functions of the retina may be lost or preserved, and the recognition of form, estimation of distance,

etc -The Lancet, January 7, 1888

EVERTED DORSAL DISLOCATION OF THE HIP—At Dec 28, DR Lewis Stimson reported a case of this rare injury, which occurred in a woman aged 55, who was knocked down by a horse car The (right) injured lower extremity was parallel with the other and with the long axis of the trunk, and was so far everted that the foot rested on its outer border as the patient The limb could be adducted and flexed, lay in bed Edward C, set 63, a fiddler, had, when I saw him but could not be abducted or rotated inward There was shortening of an inch and three quarters trochanter was prominent, and was elevated, the The right eye had not head of the femur could be distinctly felt below and ous process of the ilium By flexing and abducting the limb, and then rotating it inward, the dislocation was easily transformed into the common dorsal variety On increasing the flexion to right angle, abducting and rotating outward while lifting, the original form was reproduced After two or three such failures reduction was made with a distinct sound by maintaining the inward rotation, and after flexion to a right angle, and slight abduction, lifting the limb steadily and with considerable force ing the night following reduction the dislocation re curred, it was again reduced, and the limb was kept in a position of abduction by traction with a fivepound weight It again recurred, was reduced, and recurred, finally the bone was kept in place by traction with a fifteen pound weight, a broad bandage being drawn tightly around both hips No crepitus was felt during the many manipulations, and each reduction was accompanied by a distinctly audible snap The facility with which recurrence took place suggested in the absence of fracture of the acetabu lum, that a portion of the capsule remained interposed between the articular surfaces The patient had in addition to the dislocation, a fracture of the humerus and of two ribs, a laceration of the perinæum,

ANTISEPTIC LOZENCES IN LUNG DISFASES —DR DURANT describes the effect of Dr Albin Meunier's tuberculosis and other affections of the respiratory it of these affections suggested that they might be completely cured if an efficient agent could be found to destroy the microbe, or render the organism impervi ous to its attacks. The antiseptic treatment of affections of the respiratory organs was a method in ac impossible for the following reason. It would only prove effectual if the antiseptic remedies were admin istered in large quantities, these in strong doses ex ercised an injurious and even dangerous action upon the cells of the organism Dr Albin Meunier has which destroy the pathogenic microbe of pulmonary phthisis and other broncho pulmonary affections may be administered in active doses without any danger whatever to the organism Dr Meunier's antiseptic lozenges are composed of carbolic acid, eucalyptol, 10doform, creasote, menthol, etc., 1 to 3 lozenges are given at each meal The beneficial effects of volatile essences in the treatment of broncho pulmonary affec tions have been demonstrated by numerous observa They arrest the evolution of the bacillus, modify the character of the secretions, and diminish the fits of coughing Dr Meunier's lozenges are rapidly absorbed, and the organism is quickly and thoroughly impregnated with the antiseptic sub stances Their odor is observed in the breath, in the urine and perspiration of the patient shortly after the lozenges have been swallowed Owing to the purity of the substances employed, this treatment never disturbs the digestion. The action is prompt and effectual, tonics and strengthening medicines may be combined with this treatment. Under it the padisappear, and the local symptoms are modified -L'Union Medicale, December 11, 1887

GUAIACOL AS A SUBSTITUTE FOR CREASOTE IN PHTHISIS -DR H SAHLI, of Berne, writing on the treatment of phthisis by creasote, remarks that 13th creasote, by which is meant that prepared from the tar obtained by the destructive distillation of beech wood, is a complex substance, the constittherapeutical purposes some simple substance of December 24, 1887 known composition He finds that in the beech creasote, as prescribed in the Swiss Pharmacopæia, prescribed it in cases of phthisis, and found that it reappeared after menstruation

and general condition Some who were confined to bed and suffering from a considerable degree of pyantiseptic lozenges in the treatment of pulmonary revia were unable to retain the medicine, and vomited In some cases, too, it brought on diarrhœa The discovery of the pathogenic microbe the whole, however, Dr Sahli was well satisfied with the guniacol as a substitute for creasote It is a colorless highly refracting liquid, soluble in alcohol, ether, and fat oils, but only slightly so in water The alcoholic solution gives with perchloride of iron an emerald green coloration. The taste and odor of cordance with the most recent scientific theories, its guaracol are more agreeable than those of creasote practical application was, however, rendered almost As solutions of guaiacol deposit resinous substances when exposed to light, they should be kept in colored glass bottles One or two parts of guaiacol may be dissolved in 180 parts of water and 20 of spirit. One or two teaspoonfuls of this may be ordered in a glass of water two or three times a day after meals, or the discovered a means by which antiseptic remedies guaracol may be dissolved in cod-liver oil, which almost completely disguises its smell In this way larger doses can be taken than when the solution in water is prescribed The price of guaracol does not seem to be very much higher than that of creasote -Lancet, Dec 24, 1887

TREPHINING IN MENINGEAL HÆMORRHAGE —A female patient, aged 26, was admitted under the care of MR CROFT, in St Thomas' Hospital, about midnight on Dec 11, in a semi comatose condition She was supposed to have been knocked down and kicked by a horse There was a scalp wound, not leading down to the bone, behind and below the left parietal eminence There was no evidence of fracture During the night she passed into a state of absolute coma, and in the morning had complete paralysis of the right arm and leg, but not of the face Mr Croft trephined in the situation of the wound, removing about two ounces and a half of somewhat granular clot, which was spread out for some distance between the dura mater and the bone The hæmorrhage was tients increase in weight, diarrhœa and night sweats from some vessels into the dura mater (probably posterior branches of the middle meningeal), and could only be arrested by means of pressure About six hours later the power of movement returned in the right side, and her condition gradually improved She spoke for the first time after the injury on the Although not yet recovered, she is still restless at times, and impatient of control, there is no paralysis, the wound is quite aseptic and healing, and the improvement continous A severe contusion of uents of which vary considerably in different sam- the groin was, however, followed by sloughing and ples, and that it is surely desirable to use for cellulitis, for which incisions were required - Lancet,

Antipyrin as a Uterine Sedative - M H the largest constituent is guaiacol, the methyl ether | Chouppe has already called attention to the good of pyro catechin, OH C₆H₄ OCH₃, which constitutes from 60 to 90 per cent of the whole, the rest being chiefly made up of creasol, the mono methyl ether of homo pyro catechin, OH C₆H₃[CH₃] OCH₃ Guaia- a large myoma situated in the posterior wall of the collaboration of creasons. Described to constituent of creasons Described to the state of the collaboration of the constituent of creasons. col being the chief constituent of creasote, Dr Sahli uterus, accompanied by copious hæmorrhage, which had an excellent effect in moderating the cough, hemorrhage, but caused such severe uterine pains making expectoration easier, frequently diminishing that it had to be discontinued the secretion, and improving the patients's appetite phine were administered, these caused the pains to disappear, but at the same time the uterine contractionate of soda (Meditzinskoie Obozrenie, No 5, 1887, tion was relaxed and hamorrhage reappeared Ergot p 508) in ten cases of uramia, in seven of which The at was again administered with similar results tacks of uterine pain lasted two or three hours Chouppe then had recourse to antipyrin An injection, containing 30 grains of antipyrin, was adminis At the end of twenty minutes the pains disappeared M Chouppe then tried the following experiment An injection of antipyrin was given half an hour before the dose of ergot The patient experienced no pain, although there was active uterine contraction, hamorrhage was arrested M Chouppe concludes that antipyrin relieves the pain caused by uterine contraction which is produced by ergot without diminishing the contraction He believes that it acts upon the spinal cord, and might be administered with advantage during parturition to women of irri table temperament —British Medical Journal, December 17, 1887

Extirpation of the Scapula, Reproduction of Bone —A Ceci reports this case The patient had a soft chancre and inflammatory phimosis and recent gonorrheal stricture Five days after circumcision he was attacked with acute osteomyelitis of the left scapula, on account of which the bone was entirely extirpated about a month after the beginning of the disease An Lincision was made, the angle being on the collum scapulæ, the short limb along the spine The operation was then made subperios-Recovery was rapid teal

This makes a total of 47 total extirpations of the scapula, and of 45 cases in which the results are known 9 or 20 per cent have died Ceci and other authors draw the following conclusions The results of the operation depend upon its being performed subperiosteally, upon the age and strength of the patient, and upon the manner in which the after treatment is carried out. It is very necessary to make an angular incision along the spinous process and the inner border of the scapula, the loosening up of the periosteum should begin on the dorsal surface, and then the acromion process, the coracoid and glenoid should be freed The portions of the deltoid muscle must be united by suture The arm must be kept in position by a special bandage Passive motion and faradisation should be begun early and during ossification

Ten months before his last operation Ceci performed total extirpation of the scapula on a young scrofulous girl, 12 years of age, for caries of the subscapula fossa and coracoid process, but he was unable to control the fungous granulations in several fistu The incision was made atypical on aclous tracts count of the fistulæ, but the profuse granulations hindered regeneration The patient finally died of multiple caries and amyloid liver — Centralbl f Chirui gie, No 51, 1887

BENZOATE OF SODA IN URÆMIA -Starting from Cohnheim's theory of uræmia and from the fact that benzoate of soda inhibits the formation of urea within the system, Dr A S Partzevsky, of the Basmannaia In a few cases in which the drug was vomited a hypo-Infirmary for Laborers, in Moscow, administered ben- dermatic injection of grm 1 was efficacious

the patients were suffering from parenchymatous, and in three from interstitial nephritis The drug was given every hour, in daily doses varying between i and 2 drachms It was given either in a solution or in wafers, in capsules, and, where the internal administration was impossible, in enemata. Nine patients recovered, one died Analysis of the cases has led Dr Partzevsky to the conclusion that benzoate of soda cuts short uræmic attacks, the convulsive phenomena gradually disappearing and giving place to deep sleep The latter in "a majority of cases, terminates by passing into full consciousness" Given on the the first appearance of symptoms (headache, sickness, dilation of pupils), the salt may prevent any further development of the fit Albuminuria mostly disappears altogether

STRYCHNING IN AICOHOLISM—The good results obtained from strychnine in dipsomania by N M Popoff, V A Manassem, Partzevsky, Tolvinsky, and Zavadeky have induced Dr S Jaroshevsky (Meditzinskou Obozienu, No 4, 1887, p 332) to undertake an experimental inquiry into the antagonism between the alkaloid and alcohol From experiments made on dogs Dr Jaroshevsky feels justified in drawing the following conclusions 1 Strychnine undoubtedly neutralizes the intoxicating and narcotic effects of alcohol 2 It enables large quantities of alcohol to be taken for a considerable stretch of time without causing the usual organic lesions which follow the use of alcohol alone 3 There are, however, himits beyond which the alkaloid itself becomes injurious 4 Therapeutically, strychnine to the organism should be used in all forms of alcoholism 5 It may be regarded as a powerful prophylactic against alcoholism

ACETO TARTRATE OF ALUMINUM, THE NEW ANTI-SEPTIC -This substance that ATHENSTALDT recommends as an antiseptic, is prepared by mixing a 5 100 solution of acetate of ammonium and a 2 100 solu tion of tartaric acid, the double salt formed being obtained by evaporation Aceto tartrate of aluminum is a brilliant colorless substance resembling gum It dissolves readily in water, has the odor of acetic acid, and has an acid, slightly astringent, but not disagreeable taste. It is soluble in equal parts of water, and the solution remains clear when heated, but It becomes less soluble is precipitated by alcohol when exposed to the air on account of the loss of the acetic acid radicle of the double salt Athenstaldt recommends it as a harmless antiseptic -Journal de Medecine, Dec 18, 1887

Antipyrin in Sea sickness —In the Gazette Hebdomadaire of Dec 2, 1887, Duruy reports that he has administered antipyrin on the voyage between Havre to Buenos Ayres The dose generally found useful was grm 1 5, and 1ts effect was manifested in about ten minutes It was never necessary to give more than grm 3 to give relief in about an hour

Journal of the American Medical Association PUBLISHED WECKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All com munications in regard to editorial work should be addressed to the Editor

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JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION, No 65 RANDOLPH STREET

CHICAGO ILLINOIS

SATURDAY, FEBRUARY 4, 1888

THE NECESSITY OF NATIONAL CONTROL OF MARITIME QUARANTINE

In October, 1887, the College of Physicians of Philadelphia appointed a special committee consisting of Drs J C Wilson, E O Shakespeare, and R A Cleeman, to examine and report upon the condition and defects of the existing principal quarantine stations on our extended seaboard A few weeks later the committee made an interesting and important report, which was published widely through the press, including many medical journals The Col lege of Physicians accepted the report and continued the committee, with instructions to issue an address asking the cooperation of all the medical societies and organizations in an earnest effort to induce the present Congress to adopt such a law as will place the whole subject of maritime quarantine and sanitary interests under the control of the General Govern We have just received a copy of the address issued by this committee, making twenty two printed The fundamental propositions presented in the address may be briefly stated in nearly the words of the committee as follows "a The present meth ods of independent quarantine provided and regu lated by seaboard States or cities, are essentially defective and insufficient for the exclusion from the United States of the diseases against which quaran tine is directed δ It is impossible adequately to protect the public health of the country against the importation of epidemic diseases by independent local maritime quarantine establishments National organization would secure advantages not

ments, however complete," and is therefore necessary for the public safety "d The organization of a National maritime quarantine system in the United States should require 1 That the whole matter be placed under an appropriate department of the General Government, with a central bureau of con trol established at Washington 2 A sufficient corps of medical officers and assistants, with nurses, sani tary police, laundrymen, engineers, and officers and crews for boarding tugs, organized at every 3 The erection of necessary hospital and other buildings, wharves, disinfecting apparatus, wash houses, latrines, etc, in suitable localities, when possible on islands at or near the entrances to harbors and at some distance from the main channel 4 These stations should be organized and fully equipped at every port of entry of the coast, in such a way as to meet the requirements of each portan the measure of its commerce and immigration, and the special diseases to which it is most exposed 5 The cost of the establishment and maintenance of the National Maritime Quarantine should be provided for by appropriations from the National treasury, and not from fees exacted from vessels"

These several propositions are illustrated and sustained by appropriate facts and arguments, in detail, by the Committee The plain direct propositions, however, are sufficient to give our readers a correct understanding of the movement that has been inaugurated by the College of Physicians, of Philadelphia, through its special committee, and for the support of which their active cooperation is solicited The subject is one of very great importance, and should receive the early and most deliberate attention of the profession without delay

REMOVAL OF THE UTERINE APPENDAGES

On Dec 28, Dr Howard A Kelly read a paper before the Philadelphia Co Medical Society entitled "Removal of the Uterine Appendages for Disease in which Pain is a prominent Symptom"-possibly the last gynecological paper of the year, and certainly one of the best It is not a paper of references and quotations, but one written from personal experience, the opinion of the writer in regard to the class of cases suitable for operation, the results to be expected from operation, and in regard to the operation upon neurotic cases pure and simple, conforming closely to that expressed by Hegar in his well known monograph, but differing widely from attainable by independent local quarantine establish. the opinions of many so called authorities in this

field, and still more widely from many views, current in the profession, as to the indications for and against operation, and as to the certainty and permanency and value of the results obtained by operation

It is both important and convenient to make the symptom Pain a characteristic factor in the cases under consideration, since the patients usually apply for relief from that symptom chiefly if not alone, and they are willing to and do suffer "all things of many physicians" in order to get relief And while we emphasize this symptom, we exclude the cases in which size is a characteristic, and are confronted by a large group of mixed pelvic diseases less in size, but not less dangerous, causing more suffering, more certainly undermining the health, and not less important than large fibroids, dermoid or ovarian Of the discystoma, except as to cubic volume eases under consideration, common are ovaries en larged by cirrhosis, ovaries with extensive follicular degeneration, hæmorrhagic ovaries, ovaries containing pus sacs, neuralgic ovaries, ovaries involved in a withering of the pelvic peritoneum with the tubes, and tubo ovarian disease with co existing hydro, pyo, or hæmato-salpına, which names signify an ac cident of the disease—they may be absent and the A prominent factor in causing disease still exist this pelvic distress, especially aggravated at the menstrual period, is, thinks the author, large varicose veins in the broad ligaments

It would be better, thinks Dr Kelly, if "pain, per se, were never considered a sufficient indication for operation, or, at the worst only those cases operated upon in which the most prolonged and pains taking care had failed to relieve, and where the intensity of the suffering must always seriously interfere with the capacity of the patient to enjoy life " It would be better for all such cases if they first underwent a prolonged treatment at the hands of A host of cases of neuralgic the neurologists ovaries that have been sacrificed by the gynecologist would have been thus cured, and many cases that have been operated upon and not reheved, would at least have been spared the ordeal of operation, and the too frequent reproach thus be spared the gynecologist, that he recommended the removal of a woman's ovaries, but she declined and a nerve specialist afterward cured her, and, to make the re flection worse, she has since borne a child factors in the diagnosis of such cases Dr Kelly mentions the character of the pain, the facies of the patient and a peculiar sense of boggy fulness to the gynecologists themselves are apt to place all hope vaginal finger Constipation seems to be one factor upon the operation, like a throw of dice, and to for-

in the causation, but while relieving constipation helps the condition, he has not found that it cures any case of long standing Sequelæ of pregnancy may cause it He rejects removal of tubes and ovaries as in any way assisting a cure In one case sent me by one of the most prominent neurologists in the country last spring, the patient is but little improved, although one of the veins tied and cut off was a half centimetre in diameter. As nothing else seems to do more than mitigate this condition, I propose yet to open the abdomen and simply tie the distended tortuous veins at either end aspirating then, if necessary, and if the patient is no better she will at least be no worse off There is another class, usually classed among the neuralgic cases, and defined by Mitchell as cases in which the expectarcy and concentration of the attention on a normal function leads it to simulate disease in the ex-"These cases if operated upon pression of pain rarely reflect credit upon the operator, and should ever be considered more in the province of the neurologist than of the gynecologist I have never operated on a case of this sort, and never expect to " There is also a small group of cases in which general nervous phenomena seem to subside after a time into a local disease

As to the status of the operation, then, the removal of diseased appendages, small in size, but in which pain is a prominent symptom, Dr Keily con-1 It is scientific, because it deals with cludes that 2 It does more than almost any diseased or gans other single surgical procedure in relieving a large number of cases whose sufferings have been almost 3 In properly selected cases the perunbearable centage of recoveries is 95 per cent, and improving, and the percentage of cures equally large less we adopt the yardstick as our measure of disease, the indications for operative interference are often more urgent than in the case of most cystoma com-5 All the steps of the ing under our observation operation, the technique of the procedure, have now been so widely appreciated, that it may be described as a safe operation

Dr Kelly's standard, in regard to operating is Are the organs diseased? Will stated as follows their removal cure the patient entirely, or will it reheve a large part of the suffering and at least make A result absolutely good is life more bearable always to be desired, but a result relatively good is something to be very thankful for, and grasped in Not only the general profession, but many cases

from the beginning of their treatment to the end, in such a manner that the operation is viewed by doctor and patient as simply a step, at times the only one, again the most important step, or occasionally but one in the fight, in the treatment and progress toward cure Cases often require after treatment, and some of his cases have only left entirely well His operation removed after weeks more of work the focus of the disease, without which he could never have made any progress, but the after treat ment dealt with the disease products that may have been accumulating for years

THE DUTY ON MEDICAL SUPPLIES

At the annual meeting of the Georgia Medical Society, held on January 3, 1888, the following reso lution was unanimously adopted

Resolved, That the Corresponding Secretary enter into cor respondence with other State and lo al Medical Societies, with the view to induce them to act in concert with us in an effort to influence Congress to remove the Import Duty from all medical and surgical supplies, instruments, and appliances

Certainly all will agree that "a feeling of humanity suggests that all medical and surgical supplies, instruments, and appliances, including those used in the diagnosis as well as in the treatment of diseases, should be furnished to those needing them at the lowest possible price " Could our Government be persuaded to remove this duty, the public as well as physicians would be the gainers It is a fact that a large proportion of the medical instruments and appliances offered to the medical profession is of poor quality, and it is just as much a fact that good instru ments cost too much For these reasons many physicians are prevented from supplying themselves with even a moiety of the instruments required for general practice It is a well known fact that the majority of English and German made medical instruments and supplies are better than those made in America, and it is just as well known that such sup plies can be bought at a much lower price abroad than in this country We need not stop to inquire into the causes of this further than to say that the chief cause is the import duty on such supplies, by which the makers of such supplies in this country have the physicians and the public at their mercy Nor do we purpose writing on "free trade" or "protection," further than to say that the best protection a country can give its citizens is to take measures to protect their health

get that it is often more rational to handle the cases articles would compel our home makers to lower their prices and improve the quality of their productsthere would then be no market for poor instruments

> The Georgia Medical Association has acted wisely in bringing this matter directly to the individual mem-The only people that can bers of the profession possibly be hurt by the carrying out of the suggestion are the manufacturers, but even if they are injured, it is demanded for the greatest good of the greatest number

> It is to be regretted that, in the circulars sent out by the Georgia Medical Society, no special or even indirect mention is made of foreign books printed in foreign languages, bound volumes of foreign periodicals, and books by foreign authors printed in their own countries, or in the countries of which they are As the case now stands a U S Customhouse officer, knowing nothing of the value of books, appraises imported books by their weight, or by the number of illustrations in them, or by the amount of gilt on them As the matter is now, the physician in this country pays no duty on the current numbers of an unbound periodical, but if he wishes to com plete a file by buying bound volumes of the periodical he must pay duty on them In what way is the American printer or publisher protected or benefited by an import duty on French, German or Russian text books, or books of any other kind? and how much money is it in his pocket when the Government collects duty on a bound volume of Transactions of a British Society? And by what mental process did any set of men ever hit upon the idea that half a dozen numbers of a foreign bimonthly journal, unbound, do not constitute a book, but that the same numbers glued together and covered with a square foot of pasteboard do constitute a book? Wherein is the justice of charging a physician from forty to sixty cents import duty on each dollar book that he buys from abroad, and allowing a brainless fop to import more than half a hundred "London made" trousers free of duty?

There is another way in which this unjust duty affects the profession Some unscrupulous publisher imports one copy of an English book, makes a cheap and mutilated reprint of it, and sells it to the profes sion as the genuine article By doing this he palms off on the American physician a spurious article, and robs the English author of just compensation for his If the American publishers wish for protection, they might have it in the shape of a prohibitory If foreign made medical supplies were placed on duty on foreign printed books by American authors the free list, the quality and prices of those foreign | -the same law that England has had for many years

We speak more particularly of medical books How many publishers of medical books are there in this country? Not a dozen worthy of the name all of these are in favor of an import duty on books, we believe Is it just that for so limited a number every physician in the country, and through them sick people, should be made to suffer in pocket, and for want of books that they cannot afford to buy at the present extortionate prices?

SOCIETY PROCEEDINGS.

OBSTETRICAL SOCIETY OF PHILADELPHIA

Stated Meeting, Thursday, December 8, 1887 THE PRESIDENT, T M DRYSDALE, MD, IN THE

DR W GOODELL read a paper on INTRA-LIGAMENTARY CYST

In it he stated that the three abdominal cysts most commonly met with are the true ovarian, the common parovarian and the intra-ligamentary cysts

The ovarian is typically multilocular, has a pedicle, and starts from the stroma of the ovary, where It always grows into the perito the ovary is found neal cavity, and is probably due to a follicular de-here very dangerous and sometimes impossible generation of the ovaries—which explains its multi- Mounting upward from this region, the sac goes in locular feature

The common variety of so called parovarian cyst is typically unilocular, usually unadherent and thin-It does not bear inside papillary growths, but it contains a clear limpid fluid It is wholly extraovarian, the corresponding ovary being found either pendant apart from it or else plastered upon its walls, but yet wholly distinct. The lining mem brane of this cyst being identical with that of the tubes of the parovarium, its origin is referred by pathologists to this feetal relic To account for its hand, he had had them die in a few months after the single chamber, it is supposed to originate from some detached loop of the tubes, or, especially, from a little cyst always found at the outer end of the hori- bility and low descent of the sac, vertical elongation zontal tube of the parovarium

The third variety of cyst is called the intra ligamentary, sessile or encapsulated cyst From its site between the folds of the broad ligament, from its papillary ingrowths and its quasi malignant nature, and also from the difficulties attending its extirpation, it deserves special description and needs a special treatment

There are two kinds of cysts encapsulated by the The one is a unilocular, papillomabroad ligament tous cyst, the other a multilocular papillomatous cyst Both contain clear fluid The former is probably a cystic degeneration of one of the imbedded vertical foiled tubes of the parovarium, which represents the rudimentary sexual remnants of the Wolffian body is usually more encapsulated by the broad ligament than the multilocular variety, but the connective tis- should then be emptied, but it must not be lessened sue is looser and less vascular

The multilocular intra ligamentary cyst has but a few daughter cysts, each cyst distended by a clear limpid fluid and containing exuberant firm papillomatous growths Its proneness to ingraft itself upon migratory organs, and its firm and vascular union to its capsule of broad ligament, make its removal far more difficult than that of the unilocular variety Its origin is questionable, although the presence of papular ingrowths would point to fœtal tubular relics as the source Some attribute it to cystic degeneration of supplemental ovarian tissue often found imbedded in the broad ligament at a distance from the Others attribute it to the tubular relics in the naro ophoron Lastly, Doron attributes it to stray fætal relics in the hilum of the ovary As this theory met every characteristic of this tumor, viz the papillary ingrowth, its multilocular character and its investment by the broad ligament, Dr Goodell was inclined to accept it. The tumor did not develop into the peritoneal cavity but, growing inwards and into the broad ligament, it parted asunder the true peritoneal folds of the latter. As it burrowed upward it stripped off the peritoneal coat of the womb and bladder, fusing itself to these now naked organs by continuity of structure, and not by mere contiguity Hence, in the operation for its removal, the womb was liable to be badly wounded and the bladder torn open Burrowing downward it uncovered and soldered itself to the ureters, the great pelvic vessels and the rectum, making its separation between the two folds of the mesentery, mesocolon and mesocæcum, and prying them ingrafts itself upon In these cases a portion of the cyst these viscera must be left behind, as the union is too integral to be Another characteristic is the proneness of the cyst wall to burst and to infect the whole peritoneal cavity with papillomatous poison Whether this is always malignant is doubtful, for he had seen patients wholly recover whose entire peritoneal cavity was studded with papillary growths On the other operation

The signs of an intra-ligamentary cyst were immoof womb and bladder, embarrassment in micturition and in defecation, pelvic pains, unsymmetrical abdominal development, and resonance on percussion from bowels carried up in front

The operation for the removal of an intra-ligamentary cyst demands great experience on the part of the physician, and taxes all his pluck These are the cases which are liable to die either on the table or a Formerly, when few hours afterwards from shock a cyst was found to be intra-ligamentary, the incision was closed and the case abandoned Now, thanks to Miner, of Buffalo, the surgeon needs rarely to be

Since the bladder is often dragged upward, and It then lies directly under the line of the incision, great care must be taken not to wound it The cyst in size by the introduction of the hand and the breaking up of drughter cysts, because the flow of blood These innocent masses of papillary granulations, in would be too great, and papillomatous material might fact, so closely resemble the malignant that the miescape into the abdominal cavity reason the opening made by the trocar should be se curely closed The collapsed sac is now drawn out moval of this form of abdominal growth dominal incision so as to leave an uninjured cup like cavity this with the least amount of hemorrhage, the inci cable to the after treatment of abdominal section will also be cut and secured either by ligature or by one having virulent characters and the other benign As the surgeon advances he will pressure forceps have to tie or clamp many blood vessels culated attachment which can be ligated en masse ably because they had been removed earlier Often the whole sac is shelled out of its capsular nest, to injure the ureters, rectum, or the large pelvic ves met with, the adherent portion of the sac must be be peeled off

The vast cavity of the empty capsule is treated in one of the following ways, each aiming to exclude it from the peritoneal cavity (a) The edges of the capsular cup are attached to the border of the ab dominal incision and a drainage tube is put in Through the floor of the intra ligamentary wound a catch forceps is thrust through into the vagina There it is made to seize a winged rubber drainage tube, which is drawn up into the capsular cavity edges of the capsule are now trimmed and sewn with gut the one to the other, so as to exclude its cavity from that of the peritoneum

Whenever neither of these modes can be adopted one large drainage tube, or even two of them, should

be introduced into the pelvic cavity

DR DRYSDALE said that the paper of Dr Goodell covers the ground so thoroughly that he could add but little to what had been said One important point is the extreme thinness of the cyst wall often met with in these cases, which, in his experience, had made it almost impossible to get the cyst away with Another difficulty peculiar to this form of tumor was the risk of wounding the great blood vessels of the pelvis when the cyst had burrowed under or become incorporated with them

Dr Drysdale understood Dr Goodell to say that he believed that all operators, in removing these true papillomata always prove fatal some writers in the curability of these growths is the twenty-third day, in charge of Dr Gabel founded upon the error of mistaking a benign growth remains well three years after the operation which resembles them for true malignant papillomata

For the latter croscope alone can distinguish one from the other

DR J PRICE has not had experience in the reof the abdomen and the capsule is divided, little by pleased with the free use Dr Goodell makes of little, in a circle on a level with the edge of the ab drainage tubes, he himself has used three at one The sac wall is then enucleated time in complicated operations. He is wishing for To do some form of perfected continuous irrigation applision should begin at the lateral border of the sac, He has had his greatest experience in the removal of where the spermatic vessels lie After these are se pus tubes, and has met with a mixed ovarian and cured, the incision is extended to the site of the parovarian growth in many of his patients. Mr Tait womb, where will be found the uterine arteries, which had described two varieties of papillomatous cysts,

DR B F BAER has had some experience with this The at class of tumor He has operated on at least four tachment to the womb is left for the last, and it can cases so far as he can recall at this moment, but they then usually be brought outside of the abdomen, had not been quite so severe nor the tumors so large when it may be often converted into a sort of pedun as the typical case described by Dr Goodell, prob-

The first case was one of a double tumor of very without any approach to a pedicle In the deep por rapid growth, sent to him by Dr Gabel, of York, Pa tion of the enucleation great care must be taken not. The patient had been perfectly well so far as she knew eight months previously, but at that time she suffered When firm adhesions to important viscera are from an attack of acute urethritis and vaginitis, followed by a burning pain in both ovarian regions cut off and left behind, but its secreting layer should Soon she found that the abdomen was enlarging, especially on the right side. Seven months after this date, when he first saw the patient, she was much emaciated, and the abdomen was greatly distended by an irregular, fluctuating tumor There was a deep sulcus extending from the lower border of the tumor diagonally upwards The uterus was soft, high up and drawn to the left When the abdomen was opened two large tumors were revealed The left was tapped and removed first, because it was upper-The most It had a short, thick pedicle, which was transfixed, ligated and dropped The larger tumor was next emptied, and it was now found that it had a deep pelvic attachment Further examination showed that the tumor was subperitoneal and closely adherent to the uterus, as well as to all the pelvic viscera Enucleation was begun, and after a laborious effort, during which considerable bleeding occurred, the tumor was separated, leaving a large open wound in the broad ligament This was transfixed and tied en masse as a pedicle, making a very thick stump Just as he was about to close the abdominal wound the ligature slipped off Great hæmorrhage followed this, and it was feared the patient would succumb before it could be checked, but by the rapid application of catch forceps one after another it was controlled until ligatures could be placed The wound in the broad ligament was finally united by placing ten or twelve interrupted silk sutures tumors, had met with the accident of opening the fully cleansing the abdominal cavity of all clots the He was glad to say that in an experience incision was closed—without drainage—and the paof twenty-six years he had never been so unfortunate tient put to bed more dead than alive It was thought Dr Drysdale believed that that she could not react from the shock, but she ral-The faith of hed and made an excellent recovery, going home on

The second case was also a double tumor of rapid

One or both of the cysts had burst and seem to be necessary probably discharged into the bowel on two occasions lent recovery from the operation The after history before he saw the patient She presented an appearance of great pallor and emaciation The abdominal to Dr Baci's operation she consulted Dr Kelly, who surface was rather symmetrical and fluctuation was performed a third laparotomy The uterus was drawn high up and it very marked was not freely mobile. When the cyst was exposed the uterus, and it presented some of the symptoms it presented a deeper color than that common to the of that disease. The womb seemed to be one with ordinary ovarian cystoma. The cyst wall was thin a hard tumor, the size of a child's head, which occu After tapping, it was found to have a deep pelvic pied the right iliac region, and the patient suffered pedicle was ligated smaller tumor existed on the left side peculiar shape, being elongated and deeply seated in or broad ligaments was made Laparotomy conthe pelvis It was entirely subperitoneal. The peritoneum extended out from the uterus, spreading over ligaments and uterus to be one mass the tumor and approaching the abdominal wall as is his former experience, he began by ligating the Falsometimes seen in a fibroid tumor of the uterus which lopian tube and larger blood vessels before beginning has pushed that membrane upwards in its growth The cyst extended along the line of the colon, and rhage at first he was not sure that it was not that organ greatly distended by gas He soon determined that it contained fluid and that its general appearance was similar to that just removed The fluid was evacu-The fluid was evacuated, when the cyst collapsed He hesitated as to the proper course now, because of the broad base then tore a small opening through the posterior surand deep attachment of the tumor and its close adhesion to the sigmoid flexure stitching it to the abdominal incision and draining, but he did not, and was sorry soon after that he had not carried out his first idea, for his attempt at enucleation of the tumor was attended by so much hæmorrhage, although ligatures were applied freely, that he felt compelled to cease his efforts He had separated at least six inches of the descending colon from the cyst wall when he found that the latter dipped down so deeply into the pelvic excavation that he concluded that it would be too hazardous to finish the operation He next tried to strip off the from the operation lining membrane, but could not do so safely because of its intimate relation with the large blood-vessels He finally drew out all that was separated and ligated the entire mase The stump was dropped and a dramage-tube inserted The patient recovered, but she still has an occasional fistulous poisoned by the virulent character of the cyst conopening at the site of the drainage-tube not think that this cyst was papillomatous, but it was ity were not affected at all One explanation of certainly intra ligamentous

In another case he performed secondary ovariotomy for a small tumor of this character in a case of benign at an early stage of its development and may hystero-epilepsy and metrorrhagia face of the tumor looked not unlike the pregnant parovarian intra ligamentary cysts are very thin, as uterus in color and vascularity Its outer wall was mentioned by Dr Drysdale interlaced with a network of veins, some of them as in his paper to the danger of wounding the great veslarge as a quill it to be so deep in the pelvis and so closely attached Dr Drysdale overlooked to the uterus, Fallopian tube and broad ligament that tion as an application to cozing surfaces they seemed to be one mass, the whole attached by used it freely, in full strength, over the whole capsular a broad surface to the pelvic floor almost filled with papillary material and it was diffi cult, on account of adhesions and the deep location of the tumor, to remove it without the escape of some very fortunate not to have wounded the bladder in of this material into the peritoneal cavity Irriga such operations, for all the eminent operators have tion was not used, nor was drainage, as they did not reported cases

The patient made an excelof this case is of value A year or two subsequent

A fourth case had been diagnosticated fibroid of Enucleation was necessary and a thick from severe metrorrhagia. The left side was some It was now found that another what similarly affected, but not to the same extent This had a Under ether diagnosis of cystic tumor of the ovaries firmed the diagnosis and showed the tumors, broad the enucleation, and had no trouble from hæmor-By this means the larger tumor on the right side was safely removed But the one on the left side was so firmly fixed to the womb that to remove it would have required hysterectomy as well Even this could not be done because of the pelvic attachments of the tumor It could not be drawn up face of the broad ligament and shelled out the lining He first thought of membrane of the enclosed sac Free hæmorrhage occurred, but was controlled by sponge packing Free drainage was used, the patient recovered

In still another case operated upon recently he was compelled to remove the right cornu of the womb with the tumor, because of the close connection of the small tumor to that organ and the tube A similar condition existed on the left side. The tumors were papillary, and the patient had suffered from great hæmorrhage at intervals during two years Drainage was used, and the patient has recovered

Dr Baer did not consider these papillary cases malignant in the sense that they will return after operation, they were certainly not epitheliomata

DR GOODELL's experience tallies with that of Dr Kelly, that some of his patients were eventually He does tents, and died a few months later, while the majorthese varying results may be expressed in the statement of Virchow that a papillary growth may be The walls of these The upper sur- afterwards take on malignancy He had called attention Exploration with the fingers showed sels and mentioned a case in his own practice, which He likes Monsel's solu-The cyst was cavity by means of a sponge saturated and squeezed out, or he wets the end of his finger with it and ap plies it to bleeding points Our President has been (To be concluded)

PHILADELPHIA COUNTY MEDICAL SOCIETY

Stated Meeting, January 17, 1888

THE PRESIDENT, I SOLIS COHEN, M D, IN THE

DR LAWRENCE F FIICK read a paper on THE HYGIENE OF PHTHISIS

(See page 138)

DR T J Mays said view which I did not think existed to any extent in ployed in every case of phthisis The author attributes the existence of DR S Solis Cohen said pulmonary phthis's to the bacillus tuberculosis Probably the best evidence of this is found in the with any of the theories advanced report was made a few years ago of nearly four hundred beds nearly all those who were connected with the hos pital as physicians, nurses, etc., during this period hospital as the source of contagion Dr Brehmer gives some remarkable results in his book on the Etiology of Pulmonary Tuberculosis He states that in the town of Gorbersdorf, where his hospital is lo cated, that the mortality rate of the native in habitants from phthisis twenty years ago, at which time the hospital was established, was 50 per cent greater than at present, notwithstanding that during that time there have been present about twelve thousand consumptive patients who have freely mingled with the citizens It also often happens that at health resorts for consumptives the physician himself is the subject of the disease, and yet, under such circumstances, frequently improves in spite of the presence of the tubercle bacıllı

The author advocates a strict quarantine against Precisely such a quarantine was carried out in Naples for sixty years up to forty years ago, but the results were entirely negative

In another statement the author is, I think, not borne out by facts He states that females are more hable to the disease than are males I have recently gone over an enormous amount of statistics, col that females are much less hable to the disease than The report of my statistics will be found in a well developed apical expansion On the whole, these points is very far from being clear

Dr I Daland said I think it has been well as certained that an hereditary predisposition does play an important influence in the causation of phihisis It seems to me that this fact still remains well established With reference to the climatic treatment of phthisis, I do not think that this can be dismissed with the few words which the author has There seems to me to be no doubt that in the early stage of the disease, particularly in young men, that a change to a colder climate is of benefit The disinfection of the sputa is a point on I have listened with much which sufficient importance is not usually placed interest to this remarkable paper, which expresses a is a matter of the greatest moment, and should be em-

I believe that it was I Mr Spencer who thanked a certain philosopher for do not think that such a view is borne out by the benefiting him by expressing opposite opinions in a facts If it were true that phthisis is propagated by forcible an eloquent manner. I can make my accontagion, those who are the most exposed to the knowledgments to the reader of the paper in similar disease should be those who would be most liable to language. I admire the suggestiveness and the vigor The facts prove that this is not the case of his paper, but I find it almost impossible to agree history of Brompton Hospital, of London, when the practice advocated, physicians of experience are all This hospital had of nearly one mind, nor has Dr Flick permitted been in existence thirty six years. It has a capacity himself to be led astray in this matter by his theories The history includes The question of the omnipotence of the bacillus tuberculosis is one that deserves to be ventilated on every occasion I have already to night quoted the Not one case of the disease could be traced to the remarks of Dr B W Richardson in another connection, but as I consider him the master mind in medicine of the nineteenth century I need offer no apology for again quoting him He says, "What have we done, to be visited in the heavens above, in the earth beneath, and in the waters under the earth, with the pestis bacillorum, which is now regnant?" Everything is bacillus Dr Richardson believes that it will not be long before the bacillus of pregnancy will be discovered

I think that Dr Flick has himself given the strongest argument against the bacillophobic views he ad-The chain of events graphically described from several starting points invariably concludingmalnutration and consumption Malnutration is the fundamental, the bacillus is the accidental be that the bacillus does, when inoculated, under certain circumstances, cause tuberculosis, there is some doubtful evidence bearing on this point which cannot be dismissed in a discussion of this kind Even admitting that inoculating with the bacillus will cause consumption there is no evidence that the inhalation of the bacillus will cause the disease The inhalation of sputa and the inhalation of the lected in this country and abroad, and they show bacillus are two different matters The pus cell and the coccus pyogenes are not at all synonymous They may be in the mixture which goes to make up the Medical News of January 7, 1888 The fact the sputum, an element similar to those bodies which that the disease is less frequent among females may we know as the leucomaines and ptomaines, which, The fact the sputum, an element similar to those bodies which be accounted for by the fact that they have a more in a person predisposed and in a low condition, may extended apical motion than the male, and we know be capable of exciting the disease by interference that consumption never occurs in any one who has with nutrition or otherwise. The evidence on all one cannot help but be pleased with the paper, but ing for argument's sake, that the microbe is one of while I admire it, I cannot agree with all the state the existing causes, we must still recognize, as the reader of the paper has pointed out, that the bacillus is everywhere present, and no matter how tim of the disease powerful are the means brought against it, they are deal of thought, and have observed the effect of incapable of destroying it or of dislodging it, when it many remedies and of hygienic conditions. I do is once in the lungs bacillus in the lungs, at the very next breath the got my exact ideas on the subject. I hold that enemy is once more within the strong-hold fore, the only rational thing to do, to prevent con-starting-point on malnutrition. I hold that without sumption whether the bacillus be a cause of the malnutrition and malassimilation such a thing as disease or not, is to build up the nutrition of the individual by the measures mentioned to night and by We must utterly discard the misleading, and therefore destructive, idea that by bringing his digestive apparatus is out of order he will never germicidal agents against the bacillus tuberculosis fall a victim to phthisis, no matter of what his parents we can benefit our patients in the least patient and the bacillus will take care of itself

the tuberculosis diathesis—and that there is such a tients, is not well grounded diathesis universal experience goes to prove-is a very important matter, and, notwithstanding the views advanced, I think that every one of us should warn against the marriage of those whom we have reason to suppose would transmit such a woful in-The question of baths in consumption is There are two methods of failure an important one of function in consumptive patients which we must The one is a failure of assimilation, and the other, no less important, is a failure of excretion The skin is an important excretory organ, and it cannot be kept in the best functional condition without While we may not plunge a patient into a cold bath, we must see that he keeps the skin of the United States entire body clean, and as active as circumstances possible, or if not, daily sponging of the entire body should be insisted upon This will often relieve pathological sweating It is also a question of the however, that a mistake in diagnosis is often made greatest importance in how far we shall check sweating by drugs, whether to reduce the skin to a dry and hot condition, is not far more dangerous than the very moderate perspiration for which atropia reality it was a case of phthisis from the beginning This question and other drugs are frequently given must, of course, be decided in every case upon its own merits, with due attention to all the circum-Still I feel that it is often better to depend upon our general measures for the relief of this and other special symptoms than to resort at once to the attention it deserves symptomatic medication

I would ask Dr Flick with DR M PRICE said reference to his experience with inflammatory conditions as a cause of phthisis I do not believe in heiditary consumption I believe that 90 per cent of the cases of consumption come from some in flammatory condition as the starting point I am a firm and positive believer in the inflammatory origin of consumption In nineteen years of practice I have not seen more than three or four cases in which I could not discover an inflammatory cause heve that without this inflammatory starting-point,

consumption is impossible

I felt considerable hesitation in DR FLICK said presenting this paper, as I knew that the opinions subject I have strong convictions on the subject, clavicle slightly shortened, and find it answers admirhowever, as I have myself been the unfortunate vic- ably Under its loops, over each shoulder, two straps

I have given the matter a great Even if we could destroy every not know that those who have discussed the paper There-consumption is entirely dependent for its initial consumption cannot take place I think that when one is run down he is then a fit subject for the bacillus tuberculosis, and unless he is run down and Treat the or his grandparents died

The objection based upon the fact that nurses in The question of the marriage of those that inherit hospitals do not contract the disease from their pa-The nurses and others connected with a hospital are generally well nourished, as they get everything that is necessary to keep up their condition. When they get below par

they fall victims to the disease

I believe that no consumptive patient derives benefit from climate in itself. The benefit comes from the change of life and from the out-of door life If the patient lives an out-of door life and takes nourishing food he may recover If he goes to any climate and stays in the house he will die

With regard to the relative frequency of the disease in males and females, I would state that my statistics are drawn from the census reports of the

I have no doubt that inflammatory conditions of Baths at a moderate temperature, when the lungs have some bearing on the production of the disease, masmuch as a person who has had pneumonia is left in a depressed condition I believe that a case is often considered to be one of pneumonia when really it is a case of phthisis said that pneumonia has run into phthisis when in

I have brought this subject forward with the hope This is a matter that is too of exciting discussion There is no disease that causes much neglected as many deaths as does consumption, yet we have become so accustomed to it that we do not give it

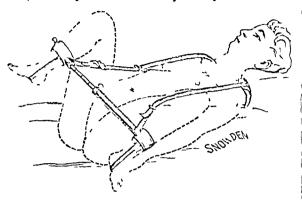
Stated Meeting, December 28, 1887 THE PRESIDENT IN THE CHAIR

DR W W KEEN read a paper on

A MODIFICATION OF THE "PERINEUM DISTENDER" TO AVOID ITS INTERFERENCE WITH RESPIRATION

In the frequent use of the "permeal distender," I have found the strap which passes under the nape of the neck very objectionable This strap flexes the legs, and supports their weight While doing so the weight of the legs pulls the head and neck strongly forward, and thus often seriously embarrasses the respira-To avoid this, I have had the wooden shoulderpiece of the old Day's apparatus for fracture of the

are passed, with a buckle turned wrong side foremost administration of this food should always precede at one end The other free end, after passing through the time of operation by three or four hours this buckle in the armpit, then is buckled to the all, it is necessary that the patient have a chance to cross piece between the legs. By this means the recuperate her strength and prepare for the mental pressure is brought on the shoulders instead of the and physical ordeal of the operation by having a rest neck, and respiration is entirely unimpeded



LI have also had two straps attached at right angles to the straps for the legs By this means the leg straps can be secured above the calf as usual or at In this last position the new straps, by the ankle passing under the foot soles, more completely flex the legs, and get the feet out of the way of the operator DR CHARLES MEIGS WILSON read a paper on

THE TECHNIQUE OF OOPHORECTOMY

Preparation of the Patient —In all cases, it is ad visable for the operator to have the patient under observation some little time before the operation Too much condemnation cannot be given to hasty and ill considered operations The urine should be carefully examined, in order to see that it is free from Neglect of this rule has doubtless oftentimes been the cause of the patient's death gastro intestinal canal should be in a state of healthy function, and the day preceding the operation all portions of the intestine should be thoroughly emp This is best secured by the administration of some gentle laxative, such as the compound liquorice powder, in 1 or 2 drachm doses, or, if there be some torpidity of the liver, by the administration of 12 of a grain of calomel every hour until the bowels are opened, care, however, being taken in both cases not to purge the patient, and not to set up any excessive peristalsis On the morning of the operation, the rectum should be emptied by an enema and, in order to prevent the accumulation of gas in the intestines and to avoid gaseous distension of the intestines, it is generally best to put into the laxative enema a little turpentine emulsified with the white of This, as a rule, relieves the intestines of an egg any accumulation of gas present in them, and at the same time is not irritating The patient should have, on the morning of the operation, a hot bath, which will add to her comfort and remove any sebaceous matter on her abdomen, it is best to have the patient sponged with alcohol after the bath Also, on the morning of the operation, the patient should ab

In bed of at least three days before the operation, and this is especially important if the patient has come on a long journey and is fatigued with travelling

The Surroundings of the Patient —By election, it is always best to operate upon the patient in a hospital, particularly if one have a hospital ward especially devoted to this class of work, in preference to operating upon the patient at her own home The reasons for this are obvious Prior to the operation, it is better that the patient should have a room remote from the operating room with all its appalling armamentarium and paraphernalia, in order that she may not become frightened or worried by seeing the preparations for the operation. It is best on the morning of the operation to bring the patient to a room adjacent to the operating room, where she may rest until the an esthetic is administered room should be bright, cheerful, airy, and spacious, and should have pictures on the walls, or something in the room to divert the patient's attention patient should also be constantly attended by a nurse during the hours preceding the operation, in order that she may not become lonely and allow her mind to dwell upon the operation It is best, both before and after the operation, to exclude rigorously the friends and relatives from access to the patient, and to have the patient give herself up entirely to the operator, in order that he may control her movements without the interference of relatives and friends

The Operation — The room for the operation should, when possible, have walls and floors that can be thoroughly cleaned and disinfected, in order that the operation may be conducted in an aseptic atmosphere For this purpose, the operator's own operating room has tile floors and glazed tile walls, so that the whole place can be flooded out with water, and placed in a thoroughly clean condition operating-table of plain wood, painted, resembling in size and shape the ordinary kitchen table, is all that is really necessary One or two stands of light construction, and upon large castors, in order that they may be readily wheeled from one portion of the room to another, and a chair for the assistant who holds the patient's limbs, are all the furniture re-A large can containing distilled water and an alcohol lamp or gas burner under it so as to maintain the water at a fixed temperature, and a tube running from the can to the table, so that at any time during the operation the whole operative field can be flooded, is also in the room The sponges are used over and over again until the sponge fibre commences to show evidences of disintegration These are always of the finest quality and for the most part those which are known as potter's sponges, or thin, flat sponges For the first time, they are prepared as follows

All of the dust is first beaten out of them are then immersed in a 15 per cent solution of hydrostain from taking any food, unless it be a cup of chloric acid for forty eight hours. They are next strong coffee or a little milk and lime water. The thoroughly washed until all the acid is removed from They are next their interstices hour in a solution of permanganate of potassium, 180 grains to 5 pints of water. This is done in order to the patient, ready to give immediate aid to the bleach them The hydrochloric acid solution is, of operator course, for the purpose of removing any mineral matter that may be in their meshes. They are again abdomen is wiped off with a little ether, in order to washed in running water and placed in a solution remove any greasy matter that may be present upon consisting of 10 ounces of the hyposulphite of sodium, 5 ounces of hydrochloric acid and 68 ounces of bichloride solution (1 1000), and carefully dried, They are allowed to remain in this solution for a period of from two to four hours until thoroughly bleached running water where they are allowed to remain for several hours containing solution of bichloride of mercury (1 1000) fied himself that the patient is sufficiently anæsthetized and hermetically sealed until the time of operation After an operation they are washed out in warm the surgical degree—the abdomen is opened with a water, then soaked in a solution of sodium carbonate few rapid strokes of the knife, without the use of the half ounce to a pint of water for three or four hours, then rewashed in warm water and put back in the I 1000 bichloride solution ready for use again instruments are all nickel plated, with the exception the subperitoneal fat is reached They are prepared by being of the cutting edges first scrubbed with glycerine soap and then immersed the linea alba if possible, so as not to open the sheath for several minutes in boiling hot water then laid upon towels which have previously been alba, no time is lost in dissection in order to reach it, immersed in the solution of the bichloride of mercury (1 1000) and thoroughly dried by superheated rectus muscle The rule with reference to the incision They are then ready for use are kept in a 5 per cent solution of carbolized oil The ligatures and sutures are kept immersed in a They solution of bichloride of mercury (1 500) are always washed in distilled water immediately be fore being used silkworm gut has been found most satisfactory, clamped and held in position by perforated shot | numerous, it is a great deal better to enlarge the in-For ligatures the twisted Chinese silk, imported by Mr Snowden of No 7 South Eleventh St, Philadelphia, has been found to be the best For anæsthesia, chloroform has been used instead of ether, unless the The reason operation is likely to prove a long one that chloroform is preferred to ether is the author's be lief that chloroform when properly and carefully administered is nearly as safe as ether, and because with chloroform, as a rule, there is none of the bron chorrhœa and gastric disturbance which usually follow When ether is given, it the administration of ether is found that a less amount is required and that the anæsthesia is more satisfactorily induced and maintained by administering the ether upon the Allis in-Where haler rather than with the ordinary cone chloroform is employed, it is usually administered by means of the shield devised by Professor Billroth and used in his clinic

The temperature of the operating room should be about 75° It is best to cover all portions of the patient's body with light blankets, with the exception of that portion of the abdomen involved in the seat of operation An assistant sits at the foot of the operating table, and receives and holds the patient's however, to leave sufficient of the pedicle to prevent limbs, passes the catheter just before the operation, and, when necessary, with the finger in the vagina, lifts ovary, tube, or pedicle up into the abdominal the pedicle with the Martin forceps for a few moments wound, as the operator may desire A trusted assist- and then, if there be no evidence of hæmorrhage, it

Then they are placed for half an ant takes charge of the anæsthetic and does nothing else The chief assistant stands on the left side of

Immediately preceding the operation the patient's the abdominal wall, and it is then washed with the especial care being taken to see that all the little folds about the umbilious are perfectly clean They are next thrown into troughs of there be an abundance of suprapubic hair, sufficient is removed to give a chance for extending the incision Afterward they are placed in jars downward if necessary The operator having satis-—and sufficient is meant that she is anæsthetized to director

The operator can readily judge of the depth of the The abdominal wall, and really no care is required until The abdomen is opened in the median line, care being taken to strike They are of the recti muscles If we fail to strike the linea but the abdomen is opened, if need be, through the The needles best to be followed is to make it as small as is compatible with the removal of the ovary or of the growth Where oophorectomy is performed, an incision one and one half or two inches in length is amply suffi-On the contrary, where an ovarian cystoma For suturing the abdominal wall is to be removed, and the tumor is a large one, or perchance, semi solid, or where the adhesions are cision in order that the growth can be readily gotten at, rather than to attempt its removal without knowing exactly what we are doing, and without having room enough to raise it up through the abdominal No care is taken to prevent the blood from the wound in the abdominal wall escaping into the peritoneal cavity, and although it is always best to avoid allowing the contents of a cyst getting into the abdominal cavity, it is thought best to complete the operation rapidly, rather than to avoid the escape of the cyst contents into the abdominal cavity 11, however, we are dealing with a pus tube, then, of course, the greatest care must be used to avoid the escape of the pus into the peritoneal cavity, owing to rupture of the tube wall The pedicle is transfixed rupture of the tube wall with an aneurism needle, the penetrating arm of which is at right angles to the handle, and tied with a stout twisted Chinese silk The loop of the ligature carried through the pedicle is held as the needle is withdrawn, and divided, each half of the pedicle is tied, and then the whole pedicle is tied with the remaining parts of one of the ligatures The pedicle is severed close to the ligature, care being taken, the ligature from slipping An important precaution to take to avoid secondary hæmorrhage, is to hold

is dropped back into the peritoneal cavity there is any tendency to hamorrhage from the pedicle, it is lightly touched with the flit button of the Paqueadhesions, and there is oozing from those which have perchloride of iron of distilled water at a temperature of 100° F It is and rally the patient from the shock sary, because, as has been frequently noted, the pa-bandage of opera flannel fastened with safety pins tient's respiration becomes embarrassed, and oftentimes temporarily ceases during the time that the operation, the patient eats absolutely nothing the cyst with the aspirator

patient is then turned on her side and all the water tion of food allowed to drain out that will The sponging is continued until all tion of animal broths and soft food shreds of coagulated blood are removed, and until when the sponge is brought up only a pale pinkish arise leading us to suppose there is something wrong fluid escapes when the sponge is squeezed

When we are sure that all hæmorrhage has ceased cavity within the peritoneal cavity, the intestines, if any If necessary to lift loops of intestines out of orrhage into the peritoneal cavity wrapped in soft towels kept moist and at a tempera ture of 100° F placed there in order to absorb any blood which by a little tuft of the bichloride wool silkworm gut, is used in the introduction of the glycerine with the point of the needle, and the free ends of has elapsed from the date of the operation tightened It is found that as a rule, this makes a ling a third of a tumblerful as a dose

Where neater approximation of the edges of the wound The sutures are fastened with perforated shot abdomen is carefully washed off with the solution of lin cautery Where the ovary is bound down by bichloride of mercury (1 1000), immediately the wound is closed There is then poured over the been torn asunder, they are lightly touched with the surface of the wound a liberal quantity of Keith's finger, which has been rubbed against a piece of the dressing (12 per cent solution of carbolic acid in The abdominal cavity is then (glycerine) Over this are laid five or six thicknesses invariably flooded for about five minutes with a stream of Lister's gauze, and over the first thickness of the I ister's gauze (the one nearest the wound surface) surprising to see how, when a patient is profoundly is dusted a liberal quantity of pulverized iodoform shocked, this intra peritoneal irrigation with hot water for equal portions of iodoform and boracic acid will immediately restore the equilibrium of the pulse Over the Lister's gauze is then placed a thick wad of In operating, bichloride wool—that is wool that has been wet with care should always be taken not to handle the ovary |a| solution of bichloride of mercury (1 1000) and or the meso salpina any more than is absolutely neces thoroughly dried. Over this dressing is applied a

After Treatment —For the first twelve hours after ovary is in the grasp of the operator's fingers. Where at the end of that time, the patient has rallied from there is a cyst of any size, its contents are aspirated ther shock, and there is no hyperpyrexia or other with Mears' trocar, but where the cyst is small, we symptoms of evil import, we commence to feed the prefer to enlarge the abdominal wound, rather than patient with weak tea, ice cold, giving two or three to delay the operation by evacuating the contents of drachms every hour. This we have found by experience to be the best way of quenching thirst and The Toilet of the Peritoneum -First, as noted furnishing gentle stimulation without overtaxing the above, the peritoneal cavity is thoroughly irrigated stomach or producing nausea or emesis. At the end with distilled water at a temperature of 100° F The of twenty four hours we commence the administra-This is preferably milk if the patient She is then again will take it and the stomach retain it turned upon the back and the peritoneal cavity stomach be irritable, we give Koumiss or Matzoon in carefully sponged, the intestines and mesentery place of milk. Unless the stomach rebel, the use of being held out of the way with one hand while with the milk is continued in half ounce doses with a litthe other the operator carries a sponge attached to the lime water, and after a few hours it is alternated a bayoneted sponge holder, first into the retro vaginal with beef or chicken tea, on the fourth day, if the portion of the peritoneal cavity and then into both patient is doing well, we commence the administra-

The dressing is never changed unless symptoms with the wound, or trouble within the peritoneal The sutures are removed on the seventh or eighth day Drainage is never employed, unless we have been left out of the abdominal cavity, are have reason to fear tissue necrosis as the result of carefully replaced and the mesentery is folded over traumatism of the operation, or unless we fear hæm-If symptoms the abdominal cavity, they should be carefully arise which indicate drainage, it is a very easy thing to open the lower angle of the wound, and insert a Upon the mesentery is placed a drainage tube, where a drainage tube is used, glass thin, flat potter's sponge which extends half an inch is the preferable form Great care must be taken to or more around all portions of the wound This is see that the mouth of the tube is thoroughly closed may escape from the needle punctures Its centre necessary to remove any fluid contained in the is grasped by a hæmostatic forcep in order to facili drainage tube, it is best done with the long uterine tate its removal after the sutures have all been intro-syringe, and after the removal of any fluid it is well A strong, stout needle threaded with a loop to pour along the sides of the drainage tube a few of catgut or Chinese silk, in order to snare the drops of Keith's solution of carbolic acid and As a rule, the patient is kept in the hos-The sutures are all introduced from within pital for a week after the sutures are removed, and is outward in order to avoid wounding the intestines enjoined from travelling any distance until a month each suture are held in the bight of the hemostatic bowels, are moved, as a rule, upon the sixth day, forceps When the sutures are all introduced, the preferably by a gentle saline Recently we have flat sponge is removed and the central suture is first found Rubinat water the best for this purpose, giv-

Great care should be taken by the operator to know exactly how many homostatic forceps, instru ments, and sponges are present in the room prior to the operation over the instruments and have the count verified by an assistant, both before and after the operation, in order that the operator may avoid the distressing accident, which has happened now many times of leaving a hæmostatic forceps of sponge within the abdominal cavity

The operation may be performed at any time, with the exception of the menstrual period, and five

days before and five days after it

Complications arising in the After-Treatment -A majority of the cases that die after oophorectomy perish from sepsis Where proper care is taken in the preparation and management of the operation to have everything about the patient, including the at mosphere of the operating room, the patient's body and clothing, the instruments, the dressings, and, above all, the conduct of the operation in aseptic condition, experience has shown that an extremely small per cent of patients die from this cause Careful attention to the rules described in this paper will do a great deal to prevent trouble of a septic nature after the operation Cleanliness is the desideratum, and this is not by any means attained by the use of antiseptic agents Indeed, the best results have been obtained, not with the use of car bolic acid or corrosive sublimate, but by the use of distilled or plain boiled water Personally, I take it that the use of carbolic acid is never justifiable, for it can never be used in solutions sufficiently strong to possess aseptic properties without subjecting the patient to the danger of carbolic acid poisoning Where, however, septicæmia does present itself, it is best combated by reopening the abdominal wound and irrigating the peritoneal cavity with hot water The septic hyperpyrexia is best reduced by the administration of antipyrin, and when once the tempera ture is gotten within the safety line it is best kept In desperate there by the administration of quinia cases good results in the reduction of high temperature may be hoped for from the ice cap Stimulus must be freely given, and opium or chloral in sufficient doses to control the nervous disturbance which is nearly always present. Where it is necessary to give opium or chloral it is best to give by the rectum, saving the stomach for the administration of food and stimulus

Peritonitis following the operation is, I believe, generally septic in character, it is best subjugated by the use of salines Shock after the operation requires the same plan of treatment employed in treating shock after any other operation The usual dermic administration of cardiac stimulants, as soon ily killing many of the more common microorganisms as the patient can swallow a few spoonfuls of hot or paralyzing their development coffee, will generally be found the best means to counteract the shock

operation is justifiable for the relief of ovarian pain, is being made to determine whether the new princiotherwise uncontrollable, for the artificial establish- ple is an alkaloid or a glucoside ment of the menopause in cases of uterine fibroma

characterized by rapidity of growth and exhaustive hæmorrhage, and in which all other means have been tried unsuccessfully, for the cure of those cases of It is the duty of the nurse to count hystero epilepsy which have well defined menstrual exacerbations, and which have failed to yield to all other plans of treatment, and finally for those cases (which abound in every hospital for the insane) in which the mania or mental aberration is evidently dependent upon, or caused by, the act of ovulation Indiscriminate, or what may be called hit or miss spaying, cannot receive too severe condemnation

FOREIGN CORRESPONDENCE

LETTER FROM LONDON

(FPOM OUR OW! COLRESIO (DF IT)

Density of Population—Uses of Embelia Ribes— Inhibitory Action of Cocaine in the Diagnosis of Neuralgias—Treatment of Carotid Hamorihage—Diagnosis and Treatment of Eczema-Carbolized Oil in the Prophylaxis of Scarlatina—Abscess of the Liver— Hot Baths in Hyarophobia

London, with all its millions, is not, after all, the most densely populated city in the country From the latest report of the Local Government Board, just issued, there is authority for the statement that the density of the population in the city of Liverpool as a whole, measured by the number of persons to the acre, is equal to 112, or double that of the me There are actually acres in which the population reaches 1,200 It is hardly to be nondered at that these are the home of typhus Much unwholesome property has been demolished of late years, but it is estimated that 60,000 persons are still living in wretched back to back court houses, around which free circulation of the air is practically impossible This estimate takes no account of frontstreet houses nor inhabitants of cellars houses are numerous cases of gross overcrowding Into this population immigrants from Ireland, where typhus is endemic, are constantly arriving, and it is to the temporary housing of these often semi-destitute newcomers that much of the overcrowding is due

The berries of the Embelia ribes, known in India under the name of Babarung, have been found by Dr W L Scott to contain several new principles, some of which are likely to become of great therapeutical and pharmaceutical importance is the name suggested in England for a principle yielded by these berries, which crystallizes in beautiful golden yellow scales It is said, although only very sparingly soluble in water, to act as an anthelmintic and germicide of a most powerful kind, speedalso partially examined these berries, and quite independently extracted therefrom a bright yellow scaly Further research alkaloid which he calls embeline

Dr Hurry Fenwick recently gave some interesting

inhibitory action of cocaine as a diagnostic factor in cases of neuralgic pain of the cranial, cervical, intercostal, renal, and lumbo sacral nerves Thus, with out a vesico rectal injection of cocaine, the leg of a decapitated frog was rapidly jerked out of a weak acid solution in a fraction of a second, but after cocame had been injected into the bladder or rectum, the leg was not withdrawn until after twenty to thirty seconds This inhibitory power was only observed when weak acid solutions were used Cocaine pos- per cent of pure carbolic acid, and he suggests use sessed no power of delaying the reflex excitability as soon as the rash is out over the whole of the body consequent upon stronger acid solutions lowing propositions were formulated nerve irritations, as neuralgias of any part, can be the treatment to be continued until the sixth week, relieved by injection into the urethra of a few drops by which time the desquamation is generally comof a 10 or 20 per cent solution of cocaine Severe nerve irritations, as the pain of carcinoma, Mr Fenwick has used etc, cannot be thus relieved this knowledge largely in the differential diagnosis of urinary disease Thus, if the renal pain was immediately relieved by cocaine, he judged the neuralgia to be due to a slight irritation, such as that experienced in lithiasis, congestion or grit If unrelieved he diagnosed more serious mischief, as stone, dilated He also drew attention to the value of cocaine in operations upon the bladder and urethra in preventing damage to an unhealthy kidney, and that the renal congestion produced by distending the bladder or injuring the walls, and this flooding of the kidney which, if the organ was damaged, led to rigors, suppressions and suppurations, might be wholly or partially prevented by the inhibitory action of co-caine upon the renal circulation Mr Fenwick gave also a long series of cases in which pain in various parts of the body had been temporarily relieved in 30 to 180 seconds by the urethral injection of a 20 per cent solution of cocaine

Mr Frederic Treves has devised a somewhat new plan for the treatment of carotid hæmorrhage when taking place from a small distant branch, as he considers the ligature of the carotid trunk was a severe, and often unnecessary method of treatment plan is to expose the artery and pass a thread of catgut round it, if the loop thus formed is pulled up, pulsation in the artery stops, if relaxed the circulation goes on again In four cases he has quite recently found this maneuver successful, and one great recommendation of the method pointed out to be, there are no grave risks from the operation itself, and in the four cases under his care there had been no local inflammation, nor had there been obliteration of the vessel

Dr T Robinson has just brought out a useful little work upon "The Diagnosis and Treatment of Eczema," in which he has annihilated the ideas of Mr Hutchinson, Sir James Paget and Dr Laycock Robinson considers that persons having an eczematous diathesis show a tendency to become bald or gray

demonstrations by means of decapitated frogs of the some the longitudinal flutings being evaggerated. As to the shape of the nail, it is often flat, sometimes even concave in its upper surface, frequently shaped like a shield, arcus senilis is also well marked as a rule in cases of eczema

> Mr I Brown, one of the provincial medical officers of health under the local government board, has drawn-attention to the prophylactic properties of carbolized oil in early and continued inunction in cases of scarlatina The oil he suggests cortains only 3. The fol- with the exception of the face The munction is 1 Slight used twice a day with a warm bath every night and plete

An interesting case of antiseptic incision in a case of abscess of the liver is recorded The patient, aged 30, being placed under the influence of ether, an incision about four inches in length was made half an inch below and parallel to the right costal margin, commencing two inches external to the linea alba, a dissection was made to the peritoneum which was cut though It was then seen that the upper surface of the liver was adherent to the diaphragm as far as the margin of the ribs, distinct fluctuation could befelt by passing one finger on the under surface of the liver and another on the lowest part of the thoracic The peritoneal wound was then closed with catgut sutures and a trocar passed through the adhesion into the abscess cavity The opening made by the trocar was gradually opened and ten ounces of pus evacuated The cavity was syringed with a solution of 1 in 5000 perchloride of mercury, the wound closed by catgut sutures and dressed antiseptically. On the third day the temperature was normal and at the end of a month the tube was removed, and the patient was well a few days later

Dr Buisson, of Paris, claims to cure hydrophobia by hot baths often repeated, he makes his patient remain continually in a hot room and the baths given are made as hot as 142°

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FROM OUR OWN CORRESPONDENT)

New York County Medical Association—New York Quarantine Station-Hospital Saturday and Sunday Fund-Huason River Ice-Bequest to the Academy's Library—Bichloride of Mercury for Children

The annual meeting of the New York County Medical Association was held Monday evening, January 16, when the following officers were elected for diathesis show a tendency to become band of g. a, early in life, their teeth degenerate early, their incisors often wearing down and falling out. The nails tary, Dr. Frank Graner, Corresponding and Statistical Secretary, Dr. J. W. Small, Treasurer, Dr. C. Small, Treasure being pitted with small circular depressions, or in tee, Dr Charles A Leale On this occasion there

was an attractive discussion on The Diagnosis and Treatment of Pleural Effusions, which was opened by Dr Edward G Janeway, and among the other speakers were Drs J Lewis Smith and Charles A

After the repeated exposures that have been made of the many abuses existing at the New York Quarantine Station, it is seriously to be hoped that the Legislature will be sufficiently alive to the influence a valuable addition to its library, in the shape of about of public opinion, if not to a sense of their duty, to place the quarantine establishment on a business basis, to abolish its extortionate revenues, and to see that the contributions made by the public to secure its efficiency should be devoted under strict accountability to that purpose alone, and that its management his friend Dr John C Peters, with a view to turning be put into competent and responsible hands During the first few days of the session one or two meas ures providing for certain reforms in this department. which, strangely enough, emanated from the very quarantine ring which for years has been mismanaging its affairs for political ends, but, whether from distrust of the motives of their originators or some other cause, nothing has as yet been done to secure a business like and efficient quarantine management Yet the exigency is a pressing one. In the forcible language of Mayor Hewitt, in transmitting to the Governor and Legislature the report of the Commit-stated that the quantities of bichloride of mercury tee of the Academy of Medicine on their investigation of the quarantine station neither this city nor the State, nor any other portions of the Umon, are free from the dangers of the spread of contagious diseases unless the quarantine establishment at this port, under the control of the State authorities, is at once reformed and recon-The danger of delay is too imminent to admit of any postponement whatever"

The Presbyterian churches whose hospital this year, much to the regret of the other hospitals, and of many prominent Presbyterians also, withdrew from the Hospital Saturday and Sunday Association, seem to have made special efforts to secure large contribu tions for their institution, as it was recently an nounced that during and since the Christmas holidays the Presbyterian Hospital had received no less than \$31,000 Notwithstanding this withdrawal in subscrip tions to its funds, it was stated at the annual meeting of the Hospital Saturday and Sunday Association, which was held Jan 16, that the receipts reported from the annual collection were this season in excess of those of last year at the same date after the collection Up to Jan 18 the reported receipts had amount ed to \$45,725 The Roman Catholic and Presbyterian churches are the only ones that do not contribute to the funds of the Association, the aim of the managers of which has been to render it more and more unsectarian by the discouragement of designated offerings in their annual collection

In the light of the investigations reported by Dr Prudden in his paper read before the Academy of Medicine last year, there is reason to fear that consumers of Hudson River ice will next summer be exposed to greater danger than ever, since, owing to the lack of convinued cold weather, a larger quantity of ice than usual is been gathered from the upper of pressure is nil, and that therefore the effects, good,

Hudson, which receives the sewage of Albany, Troy, and other cities and large towns During the past autumn typhoid fever was so prevalent at Albany that the Mayor, at the request of the Board of Health, issued a proclamation urging the citizens generally to boil the drinking-water, which was believed to be the source of trouble

The Academy of Medicine has recently received 6,000 books that belonged to the late Dr Middleton Goldsmith, of Rutland, Vermont, formerly of this city, and one of the founders of the New York Pa thological Society The Rutland Herald states that Dr Goldsmith, feeling that death was near, wrote for his library, through him, over to the Academy had not embodied the bequest in his will, however, and his daughters, who were anxious to carry out his wishes, were told by their lawyers (their father being then unconscious) that in the absence of a verbal or written conveyance, the library would have to be sold with the rest of the estate They watched him anyously, and only a few hours before he died he recovered consciousness and said, in answer to an inquiry "Tell Peters to come on and get the books"

In order to prevent possible mistakes, it should be mentioned as safe to be given to children of various "It is evident that ages, in the notice of Dr J Lewis Smith's recent paper on diphtheria, published in The Journal of January 7, were meant not for a single dose, but for

administration during twenty-four hours

PBP

THE PNEUMATIC CABINET AND ITS CLAIMS

Dear Su -A recent discussion at the Academy of Medicine in New York, in which I had the honor of participating, showed such widespread misconception of certain facts of medical history and of physi cal law, that I desire to place on record in a journal that reaches the members of the profession in all sections of the country, some of the most serious of the objections which a number of physicians having no pecuniary interest in any form of instrument, but for many years extremely interested in promoting resort to pneumatic treatment as a powerful agent for good in the management of pulmonary diseases, and especially of phthisis, hold against the claims made for the instrument advertised as the "Pneumatic These objections are

I That the good or bad effects obtained in treatment of disease by modification of air pressure are due to that modification, and not to the particular apparatus employed, as a definite solution of morphine, for example, administered from a glass tum, bler, and the same solution of morphine administered from a silver teaspoon, have exactly the same effect

2 That, with the very moderate pressures employed in the pneumatic cabinet, which are all within ordinary barometric ranges, that is to say, within the ranges to which the organism is always in process of adjusting itself, the effect due to any absolute change

pressure between respired and surrounding atmos-

pheres

3 That, as the effects are thus due to differences of pressure (or "pneumatic differentiation"), it is a matter of indifference, therapeutically, by what mech-That, in other anism these differences are obtained words, supposing barometric pressure to be represented by 30 inches of mercury, the physiological, and therefore therapeutic effect of reducing the air about the patient to a pressure of 29 inches, while he breathes the ordinary (30 in) air, is exactly equivalent to the effect of increasing the pressure of respired air to 31 inches while the patient remains in the ordinary (30 in) atmosphere, the effect in either case being due not to absolute pressure, but to a difference of pressure represented in each instance by one inch of mercury In the same manner as the physical effect of "pneumatic differentiation" upon the mercury column of the gauge is identical in both cases, so the physiological effects upon a patient are identical in both cases

4 That the question of apparatus becomes thus simply a question of convenience and of expense

5 That, provided any apparatus permits the following four modifications of pressure, or any combination of them, it fulfils all indications, and the choice of instruments can be made by the physician, independent of any mysterious advantages alleged, but never demonstrated, for any particular apparatus

I Air pressure within the thorax at rest exceeds

atmospheric pressure—during inspiration

2 Air pressure within the thorax at rest exceeds atmospheric pressure—during expiration

3 Air pressure within the thorax at rest is less than atmospheric pressure—during inspiration

4 Air pressure within the thorax at rest is less than atmospheric pressure-during expiration

(We speak of the "thorax at rest" to exclude the effects of muscular movement and elastic traction, which are the same under similar conditions, independent of "pneumatic differentiation")

The first condition is fulfilled by inhaling condensed

air or rarefying surrounding air

The second condition is fulfilled by exhaling into rarefied an or condensing surrounding air

These facilitate respiration

The third condition is fulfilled by inhaling rarefied air, or condensing surrounding air

The fourth condition is fulfilled by exhaling into condensed air or rarefying surrounding air

These render respiration more difficult

6 That the pneumatic cabinet is less convenient than gasometer apparatus for the following reasons

The pneumatic cabinet, as ordinarily employed, combines the first and fourth conditions, and is ex actly equivalent to continuous respiration of condensed air with a double-cylinder Waldenburg apparatus, or one of its modifications, or to inhaling from a singlecylinder apparatus, and having the mask fitted with an expiratory resistance valve It is also possible to employ the cabinet with a combination of the second and third conditions, but, although other possibilities than these two are claimed for it they have never Treasurer

bad, or indifferent are due solely to the difference of been demonstrated in practice, and its most honest advocates frankly admit that they are not practical

> With the Waldenburg and similar apparatus, the following eight methods are both possible and practical, and have all been employed

A Any one of the four, alone

B First and second

C First and fourth

D Second and third

E Third and fourth

The most useful of all combinations are the first and second and the third and fourth, both practically impossible with the cabinet, as are also all of the single methods, which are often more useful than any of the combinations

7 The pneumatic cabinet is far more expensive than gasometer apparatus, which now range in cost from \$30 to \$90, and its use is thus restricted, while gasometer apparatus can be purchased by any physi-

cian and by many patients

8 In view of the recorded history of pneumatic treatment, and of the facts that the pneumatic cabinet is a "patented remedy", that it has no advantages physically or clinically over other apparatus, that it offers less mechanical facilities for variations of method, that the patient is shut away from examination and control during treatment or from prompt assistance in case of accident, that the cost of the cabinet is out of all proportion to the cost of other instruments, thus tending to prevent rather than promote the extension to all needing it of the benefits of this plan of treatment, we respectfully submit

9 That while those who prefer the cabinet upon commercial, æsthetic, or mechanical grounds are entitled to use and express that preference, they are not justified, either by recorded facts or physical principles, in claiming novelty or superiority for the instrument, its therapeutic methods or its clinical results, or in representing as the beginning and the end of the science of pneumo-therapy an instrument which is simply a comparatively unimportant incident in its

development

In thus endeavoring, in the interests of science and of humanity, to record the truth about a much beclouded matter, I have no desire to detract from any merit of which the history of their invention will show my friends Mr Ketchum and Dr Williams to be deserving, and, as I frankly stated in the discussion at New York referred to in the beginning of this letter, I think they are entitled to thanks for having, by their business push, given professional prominence to a subject to which their predecessors in the field had not succeeded in attracting much attention in America, outside of the city of Philadelphia I am yours very truly, SOLOMON SOLIS COHEN, M D

Philadelphia, January 20, 1888

THE AMERICAN PHYSIOLOGICAL ASSOCIATION WAS organized on Dec 30, in New York City, for the promotion of physiological research and of social intercourse among the physiologists of the country Dr H P Bowditch, of Boston, is the President, and Prof H N Martin, of Baltimore, Secretary and

NECROLOGY.

J F WAKEFIELD, M D

J F Wakefield, M D, the oldest physician in Everett, Mass, was born in Londonderry, Vt, June 20, 1825, and died at his residence Friday evening, His sickness was long and pain-January 14, 1887 This began with a serious attack of inflammatory rheumatism about two years before his death and its convalescent stages developed serious complications of the heart and liver, with dropsical These increased in intensity during the symptoms last year, accompanied with indications of blood poisoning, yet he bore it with a Christian fortitude, as those who were constantly with him can testify His cheerful, happy disposition robbed the sick room of its gloom until the last moments of his life

Dr Wakefield was beloved and respected by all those who had the pleasure of his acquaintance Those to whom he rendered professional services, his loss is felt as a personal bereavement, his pres ence brought into the sick room encouragement and hope, his kind offices to the suffering will remain a

pleasant recollection in many households

Dr Wakefield attended lectures and took his degree at Philadelphia Medical College in 1853, and at once came to South Malden (now Everett), to make this place his home and grow up with the people. It required courage for a young man, 28 years of age, to wait the slow process required to gain the confi dence of the community His untiring devotion to his patients was in later years rewarded by a large and lucrative practice No call was ever made for his services which did not receive prompt attention, oftentimes when he really was the one who most re quired professional care, and his visits in very many cases he well knew were gratuitous

His straightforward, manly course soon attracted the attention of his fellow townsmen, and offices of trust and responsibility were given him He was a member of Palestine Lodge of F and A M, was a charter member of Paladium Council, No 287, Royal birthday at Breslau Arcanum, and its Treasurer until within a few months of his decease, honorary member of the Legion of Honor, and its examining surgeon, also Treasurer of the Everett Associates, for sixteen years, resigning his trust only within a few days of his death, and was a member of Massachusetts Medical Society, connected with the Middlesex South District, an active and much respected member of this organization, having held the office of one of its Censors several years, and been one of its Counsellors at different He was a member of the American Medical Association since 1865 He enjoyed the fullest con fidence of this large and influential society of physi-

Dr Wakefield was a life long temperance man, attended the Congregational church in Everett, although an Episcopalian in religious belief In politics he was a stanch Republican

He leaves a widow whose love and devotion during his long weary months of suffering was rewarded by his grateful appreciation of her tender care, and

the kind offices so freely extended by neighbors and friends never failed to receive his warmest gratitude Thus passed from life, through death, into life beyond, this "good physician" The funeral services were held Monday, January 17, a private burial service at the house, after which public services in the Congregational church, the Episcopal clergyman officiating, after which Palestine Lodge of F and A M, conducted the impressive masonic burial service. He was buried at Woodlawn

MISCELLANEOUS.

BACII LUS OF CANCER —Some time ago Scheurlen announced in Berlin his discovery of a bacillus of cancer, which could be cultivated, and when inoculated on lower animals produced concerous growths On December 19, a letter from Dr Domingos Freire, of Rio de Janeiro, was read before the So-ciety for Internal Medicine of Berlin, claiming priority in the discovery, and showing that Scheurlen's observations are confirmatory of his own

ROLL OF PERMANENT MEMBERS — The name of Felix Formento, M.D., of New Orleans, La, was unintentionally omitted from the list published in THE JOURNAL of December, In the same published list the residence of Dr C B Powell is given as Attica, In, when it should have been Albin, In, and that of Dr J D Roberts, Goldsboro, N C, should have been Durham N C

THE TOKIO MEDICAL LIBRARY has now the largest collection of English books in Japan Most of them have been ob tuned by donation, and in the case of periodicals by exchange with the Sei I Kwai medical journal, the organ of the Sei I kwai, the Society for the advancement of medical science in Japan

Dr R HARVEI REED calls attention to the frequently filthy condition of the water tanks on railway passenger cars, 21 5 per cent of them being found in bad condition, and frequently containing articles the sight of which would, temporarily at least, allay the most severe thirst

THE "DIETETIC GAZETTE" is the new name of the Journal of Reconstructives, edited by Dr George B Fowler, of New York

PROFESSOR PURJINKE has recently celebrated his centennial

DR ALBERT, Professor of Surgery of the University of Vienna, has received the title of K K Hofrath

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM JANUARY 21, 1888, TO JANUARY 27 1888

Capt H G Burton, Asst Surgeon, granted leave of absence for one year on S C D, to take effect when able to travel. S O 19, A G O, January 24, 1888

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U.S. MARINE HOS PITAL SERVICE FOR THE WEEK ENDING JANUARY 28, 1888

A Surgeon W A Wheeler, granted leave of absence for

thirty days January 24, 1888
P A Surgeon J H White, granted leave of absence for two

days January 26, 1888

Asst Surgeon R B Watkins, granted leave of absence for thirty days January 28, 1888 Resignation accepted, to take effect March 15, 1888 January 25, 1888

Asst Surgeon G T Vaughan, appointed an Asst Surgeon January 25, 1888, vice A D Bevan, resigned Assigned to temporary duty at Marine Hospital, Boston, Mass January 26, 1888 26, 1888

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No 6

ORIGINAL ARTICLES

EVULSION AS A MEANS OF RADICAL CURE OF PTERYGIUM

Read in the Section on Ophthalmology, Otology and Laryn gology, at the Thirty Eighth Annual Meeting of the American Medical Association, June, 1887

BY J W WRIGHT, M D,

Whether the limited amount of literature upon the treatment of pterygium is evidence that the highest degree of perfection possible in that direction has been attained, and that the various means proposed for its removal are all that can be desired, or that the subject is such as not to demand any special attention, certain it is, the methods employed for the removal of these morbid growths have been very unsatisfactory, and patients fail to receive such an assurance of benefit as it is desirable they should have

Although the affection is of little importance unless it implicates the cornea to such an extent as to obstruct the vision, yet its appearance to many, and especially to its possessor, is more or less repugnant, and patients are generally solicitous to rid themselves of its presence

Pterygium consists of hypertrophied tissue, often very trifling in amount, but sometimes very considerable and unsightly. This morbid growth is fibrous in structure and is not firmly adherent to the cornea and sclerotic. It is not covered with conjunctival tissue, but with an epithelial substance peculiar to itself which surrounds the hypertrophied mass, and is entirely disconnected from the conjunctiva, except at the linear adhesion on its under surface, where it acts in the manner of a pedicle

It seldom reaches or passes the centre of the cornea, for the reason, perhaps, that the blood-vessels which feed it do not extend further, usually, than that point

Without attempting to discuss the cause of this morbid growth, it is our object to consider the most feasible means for its thorough and permanent removal. Authors mention various methods for this purpose, which resolve themselves into three plans of operating, viz excision, transplantation and ligation, or a combination of two or all of these methods, thus, one recommends its entire removal by excision, by dissecting it from its apex to the semilar recommended the lunar fold, where it is excised, another recommends

dissection of the apex from the cornea to its base, and then inserting the dissected portion underneath the conjunctiva, where it is held by sutures, another advocates the ligation of the base and the dissection and excision of the apex, and finally, another the ligation of both the base and apex together with the narrow strip underneath the growth, where the ligatures are allowed to remain until the growth sloughs away. If any of these methods or any of their combinations have given general satisfaction, I am not aware of it, but, on the contrary, oculists usually discourage patients from having anything done with the affection unless it encroaches so far over the cornea as to interfere materially with vision

In a practice of more than twenty years, during which time I have attempted the removal of quite a number of these growths by one or another of the methods herein enumerated, I can recall but one case in which the result was all that could be desired, but, on the other hand, many of them were not benefited in the least, the operation frequently having resulted in unsightly cicatrices

Arlt has demonstrated that pterygium enters into the substance of the cornea, beneath its epithelial layer, yet, as previously mentioned, the connection is not firm, and its fibres can be readily separated from the cornea with very little effort

A few years ago, before the anæsthetic properties of cocaine were discovered, I attempted to remove a large pterygium in the case of a man who was somewhat under the influence of liquor. I caught the growth near its apex with the forceps. When I was about to separate it from the cornea with the scissors, he made a desperate effort at resistance, and caught my arm with which I was holding the forceps so suddenly that I did not have time to relax my hold. It bled freely, and I was fearful that the eye was badly injured. After a considerable time I was allowed to cleanse the eye, when I found that the pterygium was entirely separated from the cornea and as far back as midway between the sclero-corneal junction and the caruncula lachrymalis.

That part of the cornea to which the growth had been attached was somewhat hazy, and presented the appearance of numerous small depressions not larger than pin-points, showing the points where the fibres had penetrated the cornea. The patient would not permit me to proceed farther—not even to excise the

lunar fold, where it is excised, another recommends the eye and advised him to return daily, that I might

watch the eye He went home and, as he suffered am pleased to find a much better instrument for this no pain, concluded he was doing well enough, and did not return for three weeks, at which time the detached tissue had contracted and I could scarcely see any corneal opacity or other evidence that the eye had ever been affected with pterygium

What I so much feared in this case was that the corneal layers had been separated and, as a result, corneal ulceration, or, on the other hand, infiltration between the separated layers and a consequent ex-

tensive opacity

Subsequently I thought little of the occurrence more than to congratulate myself how fortunate I had been in not having destroyed the man's eye, until some time afterwards I was relating the circumstances to a physician, when he gave me the

following

An old gentleman of his acquaintance had a large pterygium on each eye He had been having his eyes "treated" from time to time by different parties, principally traveling "specialists," without benefit, when, in conversation with his family physician, he was informed that treatment in such cases was not generally successful, that his eyes would probably not Read before the Pleladelphia County Medical Society, on Janu become worse, and he was advised to desist

The old gentleman had his own idea about the matter, and insisted that the growth would continue to "cover the sight" and in a short time leave him hopelessly blind He argued that his disease was similar to that of the horse, known as "hooks," and that "hooks" are cured simply by "pulling them off" He concluded to act in his own behalf and, having procured a small pair of forceps, such as is commonly known as "eye tweezers," he actually removed the pterygia from both eyes, and without subsequent treatment the procedure effected a permanent cure

I have ascertained that the affection known as "hooks" in the horse is simply an attachment of the rational and useful membrana nictitans to the cornea, the adhesion being, probably, the result of an inflammatory action of this membrane and the ocular conjunctiva

Shortly after this, I presume about two years ago, I noticed in some medical journal that a foreign oculist, Arlt, I believe, was removing pterygium by evulsion, and being greatly interested, by reason of the circumstances just mentioned, I have been anxiously waiting to hear with what success So far I have been disappointed

For the past eighteen months I have used no other means in the removal of pterygium than evulsion As yet I have had only a few cases, but the result in

each has been eminently satisfactory

In my first operations I removed the apex, and as far back as the caruncula lachrymalis with the forceps, and excised the loose tissue with the scissors Afterwards I ligated the base first and then removed the growth with the forceps as far as the ligature, and excised as near it as possible In this I found a great advantage, masmuch as the ligature prevented hæmorrhage and I could operate to a better advantage

the forceps, and took in its stead a blunt hook—such gymnastics, particularly systematized active everas is used in the operation for strabismus—which I cises Masseurs and masseuses, good, bad, and

purpose

After the base has been ligated the pterygium is separated from its attachment with the blunt hook, by running it under a small portion at a time, especially if the pterygium is large, first separating the thin connection between the ligature and the cornea, then a small portion of the corneal attachment at a time, until the whole is removed

The loose tissue is excised as close to the ligature as possible, cold water dressings are used, and the ligature is allowed to remain until the strangulated portion sloughs, when it, with the ligature, will be-

come detached and pass off

The advantage of this operation is the complete and thorough removal of the growth from the parts into which it has been imbedded, without the injury or superfluous removal of any normal tissue

THE TREATMENT OF NERVOUS AND MENTAL DIS-EASE BY SYSTEMATIZED ACTIVE EXERCISE

ars 11, 1888

BY CHARLES K MILLS, MD, OF PHILADELPHIA, PA

Exercises or movements for medical purposes, medical gymnastics, in other words, have been divided and subdivided to an absurd degree by Ling and his followers Schreiber gives an example of a German term for what is called the quarternary combination of the standing position, which term contains forty-five letters and nine different words, although it is written in German as a single word The division, however, into such movements or exercises as passive, duplicated active, and active, is Passive movements are performed upon the patient or individual, his will not coming into play except in submitting In duplicated active movements, both the operator and the individual treated, take part, the first resisting while the second acts, or the reverse Sometimes these movements are spoken of as semi-active and semipassive, in the former, the physician or operator resists, in the latter, the subject resists Movements of this class are of the greatest value in some forms of nervous or neuro-muscular disease, but it is not my purpose to discuss them, unless it be incidentally, in this paper, nor do I intend, except perhaps in the same manner, to speak of massage

It is of systematized active exercises, that I will The expression single acmore particularly speak tive movement indicates that the movement is performed by a single individual without direct assistance, although it may be done under the orders of a physician or master Exercise of this kind may be performed either with or without apparatus, and even when the latter is used it need not necessarily be expensive While massage and electricity have Recently, at the suggestion of Dr Baldwin, of this received a large share of attention from neurologists, city, while assisting me in an operation, I discarded they have neglected too much the use of medical

indifferent, now abound in our large cities, but good instructors in physical culture, as applied to medical

purposes, are not numerous

"Gymnastics," "evercises," and "movements," by some medical writers are used as practically synony-Dr George H Taylor, however, claims that we should carefully distinguish between gymnastics and movements, and between calisthenics and movements, and that evil has grown out of confounding paper to speak with precision of "movements" or "exercises," designating the particular kind, but "medical gymnastics" covers the whole ground, and the word "gymnastic," or "gymnastics," used in a general sense, may be properly employed in medicine

I will not give much space to a discussion of literature, but will refer briefly to a few important publications, including those which I have chiefly

consulted in the preparation of this paper

The attention of the profession of this country has been too little attracted to the publications, and the practical work of the brothers, Dr George H Taylor and Dr Charles Fayette Taylor, of New York, who may be regarded as the pioneers in this country of the gymnastic treatment of disease They deserve great credit for their efforts, not wholly ap As early as 1861 a book was issued on The Theory and Practice of the Movement Cure, by Charles Fayette Taylor, M D, in which is discussed in an interesting and practical way, the treatment by Swedish movements, of curvatures, paralysis, indigestion, constipation, diseases of women, etc 1879 appeared a treatise entitled An Exposition of the Swedish Movement Cure, etc., by George H Taylor, AM, MD Dr Benjamin Lee, of Philadelphia, by his practical labors, and his publications on massage and Swedish movements, has done much to advance the cause of mechano-therapy in America, and stands with the Taylors as a pioneer in this department

Archibald Maclaren's System of Physical Education, Theoretical and Practical, is an invaluable book. be studied by every physician interested in active pulley-weight apparatus exercises as a means of treatment Blaikie says truly of Maclaren, that he has done more than anyattain these benefits By his individual efforts and and for the sketch of a pair of pulley weights of exhis publications, William Blaikie himself has also done a great work for the advancement of physical His book published by Harper & Bros, in Stay So, has enlisted the interest of thousands, and doubtless has lengthened or saved many a life 1886 appeared another little work by Blaikie, in the form of a school text-book Sound Bodies for Our Boys and Girls The exercises given in this book are clear and plain, they are arranged on a natural plan, they are safe, and but little apparatus is resticks, and a horizontal bar, are about all I have performance of many movements found them to be admirably suited for my purpose in the treatment of some forms of nervous and mental disease

In the Therapeutic Gazette for June and July, 1887, appeared two lectures by Professor Dujardin-Beaumetz, of Paris, in the first of which he considers the physiological effects obtained from exercise and movements, and in the second, after setting forth the methods of medical gymnastics, he discusses the diseases and condition in which they are useful

A Manual of Treatment by Massage and Methese terms It is probably better in a medical thodical Muscle Evercise, by Joseph Schreiber, M D, of Austria, translated, with the author's permission, by Walter Mendelsohn, M D, of New York, has appeared within a few months This book treats the subject of mechano therapy from various points of view, and in it are found explicit directions in regard to the technique of massage and its effects, and also a discussion of active movements with and without The treatment of many nervous dis apparatus eases is discussed. The book is a valuable practical treatise, and its publication will do much to advance mechano therapy in this country, but one of my chief reasons for referring to it is because it contains an extensive chronological bibliography, which can be consulted by those interested

> I am engaged in the preparation of a book on the Gymnastic Treatment of Nervous and Mental Discases, in which will be considered both general and local methods of exercise, and the combination of such methods with other forms of treatment, as for instance, with massage, electricity, hydrotherapy, and medicines

One of my chief purposes this evening is to call attention to general systematized active exercise I will also speak of a few special or local exercises designed for particular organs or parts In a large number of nervous and mental cases, the improvement of general nutrition is the one thing needed to bring about relief or cure, and one of the most effective aids to this end is general, systematized The methods chiefly adopted by active exercise me are (1) the exercises of Blaikie, with or without dumb bells, and with the horizontal and parallel bars, and while not intended for medical purposes should or substitutes for them, and (2) exercises with

I need only refer you to Mr Blankie's best known book for a description of some of the simplest forms one else now living to point out the benefits result- of apparatus, to the uses which can be made of the ing from rational physical exercise, and how to jambs of a door and a couple of pitchfork handles,

cellent pattern designed by Dr Sargent

A J Reach & Co, of Philadelphia, the well known dealers in sporting and gymnastic goods, have con-1883, and entitled How to Get Strong and How to structed a form of pulley weight apparatus, which is

very complete, compact and convenient

"The Home Exerciser" of C L Dowd, of New York, is also convenient and useful, and has been strongly endorsed by Mr Blaikie for its compactness, strength, lightness, etc The apparatus of Reach and Dowd consists of an arrangement of ropes, pulleys, and weights, ingeniously put together quired for them-a few dumb-bells, a few wands or so as to occupy but little room, and yet to allow the

"The Home Gymnasium" of John E Ruebsam, of

¹ How to Get Strong etc

Washington, D C, is well adapted for the office of insane department of the Philadelphia Hospital a physician, or for hospitals and colleges For a long time I have had this apparatus in use It occupies more room than the apparatus of Reach or Dowd, but, on the other hand, it is in some respects more complete, having, for instance, combined with it a lounge for massage purposes, and a strong horizontal bar An apparatus of this kind or one similar should be in every hospital which has not a complete and experienced instructor and expert in gymnastics gymnasium

Elastic straps are sometimes used for gymnastic According to Dujardin-Beaumetz, Pitch ery was the originator of this system, which he has styled "opposition gymnastics" Elastic cords with handles attached are firmly fastened in convenient By making tractions in different directions, they will bring out almost any muscular action can be adapted for the leg or foot movements, as well as to the upper extremities Some objections, however, apply to them which are not applicable to the pulley-weight apparatus, or to the use of dumb bells, The force used cannot be thoroughly bar bells, etc controlled and regulated Blankie in describing and criticising one of the forms of parlor rowing apparatus, has pointed out their defects and shortcomings better than can be done by myself In spite of their defects, however, he considers them his patients if he cannot become interested excellent contrivances, if used intelligently

Movement apparatus run by steam has been largely resorted to in some countries, particularly in lar and respiratory," says Maclaren, "depends the Sweden, where the method was invented and introduced by Zander In this country, it has been used nervous force has also something to do with the cain a few institutions, as at the Surgical Institute, formerly located at Broad and Arch Streets, in Philadelphia, where I have observed its workings The system has a field of usefulness, it has also certain disadvantages, and needs the most careful supervision, but under the strictest supervision, it may be used with great benefit To some extent, semi-active and semi-passive or duplicated active movements breaths through the nose and mouth, by forced exmay be carried out by this machinery, and it can be made to cover the whole range of passive exercises

The same cautions and contraindications are to be borne in mind in using the exercises either with or without apparatus probably the dangers of overdoing are to some extent greater with than without apparatus In the prolonged treatment of patients, some advantages accrue from the use, conjointly or alternatety, of exercises with and without apparatus The interest of variety is added, and the opportunities of the adaptation of movements to special cases and conditions are more numerous Most of the firms which sell pulley-weight apparatus send with them printed instructions and illustrations, but I must enter a word of caution against the employment of such apparatus by invalids without special medical supervision Much harm has come to individuals, as well as to the subject of medical gymnastics, by the use of exercises without specific directions

To a considerable extent, I have personally directed the exercise-treatment of my patients in private practice, and in the nervous wards and the

A H P Leuf, instructor in physical culture in the University of Pennsylvania, and Dr O H Beckman and Dr Mary Willits, assistants in the department of the mind and nervous system in the Philadelphia Polyclinic, have, under my instructions. successfully treated patients for me

Mr Clinton A Dodge, of Philadelphia, is an able During the present year he has treated for me, with marked success in most cases, patients suffering from neurasthenia, hysteria, habit chorea, neuritis, lateral spinal curvature, melancholia, etc Dodge has also had under his charge the patients of other physicians, and, by their permission, he has given me some of the results of his work

The director of these exercises should be thoroughly well fittted for his work He should not only understand the work, but he should combine discretion with enthusiasm in pursuing it. If not a physician, or if a physician without special experience in such work, the treatment should be carefully supervised by some one more competent treatment should be carefully individualized instructor or director should not undertake too much in one day, and he will soon tire and do badly with

Usually I combine respiratory exercises with the "On the two powers, muscumuscular movements ability to perform all bodily exercises" Inherent

pacity to perform bodily exercise

Of course, in any method of gymnastics, respiration must to some extent be exercised becomes accelerated, and even painful, under continuous active exercise In speaking of respiratory gymnastics in this connection, however, I refer to special efforts of breathing-by taking deep, full piration, as well as inspiration, by counting with a loud voice while holding the breath, etc It is not my purpose to refer in this paper to the use of pneumatic chambers or other forms of pneumatic

It is interesting to recall that the most ancient of books in which gymnastics is discussed, the Chinese Treatise Cong-Fou, the Art of Man, speaks particularly of the importance of respiratory gymi astics Dally and others in the present century, have maintained that respiration is the pivot of every gym nastic exercise, and systems of respiratory gymnastics

have been invented (Dujardin-Beaumetz)

Want of respiratory power is certainly either at the root, or is an essential constituent of many morbid nervous conditions It is remarkable how much individuals differ with reference to their respiratory power, even when of apparently the same muscular The development of the lungs, chest walls, diaphragm, abdominal walls, and other parts, the greater aeration of the blood which is conveyed to weak spinal or encephalic centres, the greater cortrol which the patients obtain over all nervous and muscular effort through these respiratory exercises,

make them of decided value in cases in which active up high all the time movements are applicable On the other hand, it is quite possible that some harm may result from the incautious use of forced respiration Curried on too long, both as far as giving lessons is concerned, and as far as the weeks and months during which the exercises are continued, it is even conceivable that the air-cells may be unduly strained Great care should be taken with those who are very weak generally or in a particular part, especially in the lungs or abdominal region

The treatment should begin with the simplest forms of exercise, and these should be constantly increased and elaborated, as the patients gain in skill and It is wonderful how little some patients A grasshopper in gymnascan do in this direction Five minutes, or even less, tics is a burden to them is sometimes all the time that can be safely taken at first, and five minutes of actual exercise must sometimes be distributed over half an hour In most cases the time should never be allowed to exceed twenty or thirty minutes Often it is important to give resting spells during the process of treatment Some patients, ambitious to excel or fearing to appear weak, will certainly overdo Individual peculi-arities should be carefully studied In the majority of cases of nervous and mental diseases in which systematized active exercises are indicated, the danger will be greater of overdoing than of doing too

It is an important practical matter to have the air of the room in which the exercises are performed as pure as possible The room should be well venti-It is not necessary, particularly in the case of the nervous and weak, that the room should be without fire, indeed, it is sometimes better that there should be some warmth, but fresh air should be admitted to the room

When possible it is well for the patient, soon after finishing the exercises, to take a sponge bath, with tepid or cold water, according to individual Good food, regulated exercise in the open air and plenty of sleep are, of course, important

To illustrate clearly what is meant by simple respiratory exercises in connection with systematized muscular movements, I will quote for you from Blaikie's smaller work two of his very plain directions I will also quote from the lectures of Dujardin-Beaumetz one of Dally's movements

"Directions - I Stand four feet apart in the aisles, with arms folded behind you, and with one foot about eight inches in front of the other 2 Now draw the head back and tip it as far down behind as you can Hold the chin up high 4 Rest there a moment, then stand up straight again 5 Repeat this exercise six times

"Caution - Breathe deep, full breaths all the time, indeed, always, when evercising, breathe slowly, and as large breaths as you can "

"I Take a dumb-bell in your right hand and hold it up high over your head 2 Stand with the chin

3 Breathe a full, deep, slow 4 Now slowly lower the dumb bell, not down to your right shoulder, but across, above your head, and down over your left shoulder, as low as you can, till it touches your shoulder, letting your body tip over to the left 5 Hold it there till you 6 Now bring it back overhead slowly count ten Then do the same with the dumb-bell in your left hand 7 Do this five times with each hand

"Repeat this five times each day the first week, and twelve times daily after that right along"

One of Dally's respiratory exercises is as follows He places the patient in a vertical attitude with the back against a wall, then, both arms being extended horizontally in front, the patient forcibly and slowly separates the fingers while he bends the thorax forward, he remains in this position thirty seconds, makes a deep nasal inspiration, and resumes the initial position, then makes a deep expiration, and repeats this exercise six times in succession

Dujardin-Beaumetz, in reference to these exercises of Dally, remarks that another and simpler exercise will render much service in developing respiratory capacity, viz to make the patient count with a loud voice as long as he can without losing breath Before commencing to count he should make a deep nasal inspiration

Among the diseases of the nervous system referred to by Dujardin-Beaumetz as calling for gymnastic treatment are muscular atrophies, deformities, chorea, hysteria, ataxic, nervous, and neurasthenic persons, the victims of mental overwork and sedentary life, He also discusses the uric acid diatheand idiocy sis, gout, and diabetes, for which the neurologist is often consulted

This paper is not founded simply upon theoretical considerations and a study of literature For several years I have to some extent used systematized active Carrying out strictly hygiene in various directions exercises, either with or without apparatus, and durwill very much assist in getting good results with the ing a year past I have had a considerable number of patients on this treatment My objects, in addition to recording experience, are to call general attention to a too much neglected method of treatment, and to make certain practical suggestions which naturally grow out of a study of the subject It will be impossible to give details of cases without dragging the paper to a wearisome length When preparing this paper I was able to put my hands on forty-two such cases, not including those under treatment at the Of these cases, twenty-five Philadelphia Hospital were treated by the general active exercises, some with and some without pulley-weight apparatus, the other seventeen by some local method for a special The patients treated by the general exerpurpose cises included cases of idiocy, insanity, asthma, minor chorea, habit chorea, hysteria, general nervousness, neurasthenia, nervous palpitations, lithæmia, cerebral syphilis, diabetes, curvatures, ataxias and paralysis, those treated by special more or less local methods included cases of hemiplegia or monoplegia, ınfantile paralysis, lead paralysis, rheumatic neuritis, muscular atrophy, aphonia, and writer's or telegrapher's disease

For the feeble-minded, for the insane, and even for

criminals, systematized active exercises can be used in a great measure, and the refractory wards, with with great advantage Those in charge of institutions for the idiotic and feeble-minded in France with patients, attendants holding them down, and have in particular given much attention to gymnas- removing them into the seclusion of their own rooms, Esquirol, Bourneville, and Pichery At the Pennsyl-|system to patients and guardians, but I believe the vania Training School for Feeble-minded, at Elwyn, risks are much less in reality than under the old sysin charge of Dr I N Kerlin, I have frequently, and tem, for the patients are not so irritable, not so rewith great interest and pleasure, witnessed the performance of the gymnastic classes As many as eight separate classes are instructed at one time by as be provided with an additional "rational physiological many teachers, and at intervals general exhibitions outlet" for their morbid muscular energy, on the one who can only perform the simplest movements, up to method of calling them out of their muscular and those capable of elaborate and somewhat difficult ex-At Barre, Mass, a gymnasium has been erected, and the children are thoroughly drilled and The same is true of some other institutions for the idiotic and feeble-minded in this country Much could be said, if time permitted, about the beneficial effects of regulated physical culture in For the improvement of the general nutrition of a class of unfortunates usually deficient in this respect as well as for their training and development, both mental and physical, systemic exercises are of the utmost value In some of the grades of idiocy attention should be paid to individualizing the tence, be aroused to the performance of some movetreatment by exercise To a certain extent gymnastics can be used for diagnostic and prognostic purposes in idiocy, observation of those attempting systematized exercises determining the possibilities has been clearly shown. The class has made much as to general improvement

So far as I know, very little has been done with systematized movements in hospitals and asylums for the insane, although I believe insanity affords a great field for such treatment In the first place, such exercises will do much toward improving the frequently young man who, at the age of 21, broke down mendeteriorated physical condition of the insane, secondly, they afford a method of calling out and improving the impaired mental faculties, and thirdly, they constitute another valuable means of supplying | believing that people were watching and following to the insane that which all alienists now agree is him most important for them—occupation

"One of the great improvements that has taken place in modern asylum management," says Clouston,3 "has been that rational physiological outlets are provided for the morbid muscular energy in cases of They are neither confined in their rooms, nor within 'airing courts' enclosed by high They are made to wheel barrows and dig on walls They are encouraged to dance, and are well Most of them eat enormously, and if they have not enough to eat they fall off, get worse in their mental state and in their habits Many of them can be got to expend their energy in hard, regulated work, and are the very best workers on the farms and in the laundries of the asylums They are not all, of Some of them simply course, furiously maniacal have a slight morbid excess and exaltation of the attacks, and he has been entirely without the regular brain convolutions, shown by restlessness, want of periods of depression and elevation for nearly three affection, want of self-control, but are not incoherent If they are kept at work the most objectionable and

their noise and danger, are not needed The scenes It is only necessary to recall such names as are few. No doubt there are risks run in the present vengeful, and not so dangerous generally

By means of systematized exercises the insane can The classes are graded from those pupils hand, and, on the other, with a rational physiological

general torpor

A few weeks since, in the Insane Department of the Philadelphia Hospital, I started a class in systematized active exercises, selecting eight women suffering from melancholia, and putting in with them to give zest to the treatment two other cases not mentally depressed Sufficient time has not yet elapsed to determine how much in a curative way can be accomplished by such treatment, but already the experiment has proved to me an instructive one I found that even these patients, plunged into the profoundest depression, could, by sufficient persisments, others did moderately well, some very well The difficulty of fixing the attention of these patients, and yet the possibility of doing it by sufficient effort improvement in facility and rapidity Small classes should be formed in large insane asylums, and the system given a thorough trial

An instructive case of mental disease greatly benefited by systematized active exercises, is that of a tally, as the result of too great output of mental energy and physical evertion in business He became depressed, and soon developed delusions of suspicion, In a few weeks, under rest, the depression disappeared, he again attempted business, but became excited, and then developed ambitious delusions He was admitted to an asylum for the insane, and in three months came out, apparently well his subsequent history for eight years was that every year, late in the spring or early in the summer, he had a period of excitement, followed by one of de pression, each lasting about three months three years ago he began the use of systematized active exercises, after the method of Blaikie and He has since persevered with them, at the others same time paying attention to diet, sleep, and general hygiene On a few occasions he has had touches of elation, lasting only a day or two, but he has been able, owing to his increased physical and mental strength, to resist with success the beginnings of such

An experiment made at the New York State Rerepulsive parts of the older asylum life are avoided formatory, at Elmira, has been frequently referred to of late by the medical and general press An ex-

⁸ Clinical Lectures on Mental Diseases, p 158

twelve men, who for a period ranging from one to power of compensation, and is better in regurgitation two years, had made no appreciable progress in their school work, and who seemed incapable of prolonged mental effort, yet could not, strictly speaking, be other form of cardiac disease, and the prognosis is considered mentally unsound, or representatives of a class known as feeble-minded, with the object of ascertaining, if possible, if physical culture, as comprised in frequent baths and massage, and daily calisthenics under the care of a competent instructor, would not result at least in the partial awakening and stimulation of dormant mental power Increased mental activity rather than muscular development was to be the gauge of success or failure of the experiment

Dr H D Wey, physician to the Reformatory, in reporting the results of the experiment, says that to those who are thrown in daily contact with the men, a mental awakening was apparent They became interested in their studies and strove to appear to the best advantage in the school-room Their advancement in their studies was not steadily onward, but rather in-It will be interesting to termittently progressive note in the future, as Dr Wey remarks, whether the good results are permanent, but whether they are or not, the step is one in the right direction, and is to be commended to penologists everywhere

(To be concluded)

PROGNOSIS IN VALVULAR LESIONS OF THE HEART

Read before Chicago Pathological Society, December, 1887 BY JOSEPH M PATTON, M D, OF CHICAGO

The most interesting question in connection with cardiac valvular lesions, and one that requires the most accurate knowledge of the physical condition of the heart, and of the changes that have taken place, and of those which are yet to follow, is the question of prognosis

The incurability of organic disease of the heart, confines the management of these cases to one object, namely, how long can the heart be made to perform its function? To this end it is necessary that an inpoints First The seat of the lesion and its character Second, The physical changes already effected by the lesion Third, The histological changes resulting from these altered physical relations

The careful study of these questions, and of the liability to further changes, both physical and pathological, in which any or all of the above-named conditions may be factors, will enable us to make a reliable and scientific prognosis The effect of location on the prognosis depends on the time of life at which the trouble begins, and on the character of the lesion

In early life the mitral valve is generally the one at fault, and the lesson is most often regurgitant is due to the fact that mitral disease in young subjects is generally secondary to acute endocarditis, and to the high blood pressure on the under side of these

perimental class in physical culture was formed of valves. The prognosis in these cases depends on the than in stenosis Mitral disease at middle life, or subsequent thereto, is generally secondary to some

> Disease of the aortic valves generally occurs in adult life, probably owing to the tendency toward inflammation of the aorta, immediately around the sinuses of Valsalva, during this period

> The prognosis here is better in stenosis, than in regurgitation, aside from the liability to cerebral embolism, which Niemeyer limits to cases of regurgitation, I believe that embolism is not of very frequent occurrence as I have met with only one instance, and that in a case of stenosis in a girl 12 or 14 years

> Second, as to the physical changes in the heart effected by the lesson And in this connection cardiac hypertrophy is not to be considered as a diseased condition, but as the necessary and only remedy which Nature can give to a pump whose power is being overtaxed by reason of a faulty valve

In mitral regurgitation there is first dilatation of the left auricle, but this is generally slight, as the intra-auricular pressure is not very much augmented The increased pressure in the pulmonary circulation is immediately relieved by hypertrophy of the right ventricle, which is a simple hypertrophy, and not eccentric, as is generally stated When this compensation takes place the prognosis is good, and remains so until the hypertrophy becomes eccentric from degeneration of the right ventricle The muscle being no longer able to withstand the increased intra-ventricular pressure, the prognosis then becomes grave The increased pressure in the left auricle and pulmonary veins throws the blood into the left ventricle with more than usual force, hence there is slight dilatation and hypertrophy of this ventricle, which equalizes the arterial circulation In some cases complicated by extensive myocarditis, dilatation of the left auricle, and ventricle, may be so rapid that the patient dies before compensatory hypertrophy can be obtained In a recent case of this nature in a child 8 years old, the heart muscle was very weak telligent prognosis be made, based on the following from myocarditis. The patient was very anæmic, yet under treatment the improvement was very slow, but steady for several weeks, when, after taking a long walk and overtaxing the heart muscle, rapid dilatation took place and the child died in a week or ten days

In mitral stenosis there is dilatation of the left auricle from the increased pressure necessary to force the blood through the constriction, and though the right heart compensates for the obstructed pulmonary circulation, the prognosis is rendered more grave than in regurgitation, because of the over-distension of the left auricle, which is but moderately supplied with muscular tissue, and is unable to withstand 1t

In aortic disease the left ventricle furnishes the compensating power In stenosis, its first effect is hypertrophy of the ventricle This fully controls the interference with the blood current, and all goes well so long as the muscle retains its integrity

⁴ Annual Report of the New York State Penttentiary, at Elmira, for the year ending September 30 1886

The prognosis at this stage is good, as a patient may remain in this condition for many years, totally ignorant of any cardiac trouble Sooner or later lowed by dilatation of the organ, by reason of lessmuscular degeneration sets in, as evinced by ven- ening of the resisting power of its muscle tricular dilatation, as the muscle is now no longer able to withstand the blood pressure, and as the dilatation becomes advanced the mitral ring is stretched, insufficiency of that valve results, and this gives an obstructed pulmonary circulation at a time when muscular degeneration prevents compensation by the right heart, therefore, as soon as mitral regurgitation occurs in these cases, the prognosis gets grave

In aortic regurgitation the first effect is dilatation from the direct force of the reflex current impinging on the walls of the left ventricle while it is relaxed, also, from overdistension by the addition of the regurgitated blood to that normally received from the tion of only a short time until asystolism of the heart This is followed by hypertrophy, The prognosis at this stage is which is eccentric not as favorable as in the same stage of stenosis, that is, when compensation is obtained, for the reason that in stenosis when the hypertrophy has fully overcome the obstruction at the valve it may remain stationary so long as there is no change at the valve, or in the integrity of the muscle, while in regurgitation the distending force is constantly present, and the hypertrophy must be progressive It is for this reason that we find such immense left ventricles in some cases of aortic regurgitation As soon as the hypertrophy fails to arrest the dilatation, mitral regurgitation ensues, as in stenosis, but is reached in much less time, as a rule, hence the prognosis is even more unfavorable than in the same stage of aortic stenosis

The statement made by some authors that hypertrophy of the right heart in disease of the left side, and of the left ventricle in aortic stenosis, is eccentric, I believe to be erroneous Niemeyer claims that simple hypertrophy is rare, and only obtained in such interference with the circulation as is given in Bright's disease or chronic asthma, or bronchitis I do not recognize any difference between the effect on the left ventricle from the increased vascular pressure in Bright's disease, and the effect on the right ventricle in pulmonary obstruction from mitral regurgitation, or on the lest ventricle in aortic stenosis before degenerative changes begin

Histological Changes — This consists in the hypertrophy of the muscular tissue, which results from the increased nutrition to the heart muscle, as demanded by its extra labor, similar to like changes in other muscular tissues under like circumstances I believe this to be a simple increase in volume of the primitive muscular fasciculus, and not a numerical increase This increase in volume of as is claimed by many the fasciculus may be caused by swelling of the sarcous elements of which the fibrillæ are composed, or possibly, increase of the number of fibrillæ within the sarcolemma, if there were actual increase in the is not so dangerous as in mitral regurgitation, hence number of fasciculi, with their investing sarcolemma, there would also be increase in the number of muscular bundles with their perimysium, and after degeneration of the muscular fibre this would leave an excess of the areolar tissue of which the perimysium is com-This I have not been able to see posed

The pathological changes taking place are those of degeneration from defective nutrition, and are fol-

The interference with the coronary circulation by reason of the physical changes in the heart by atheromatous degeneration of the aorta or coronary arteries by inability of the arteries to carry enough blood to supply the increased volume of muscle, causes a fatty degeneration of the primitive muscular fasciculi The endo cardiac blood pressure now exceeds the contracting power of the muscle and rapid dilatation follows

The prognosis then, in a heart that has been hypertrophied, becomes grave with the appearance of symptoms indicating dilatation, for now it is a quesis developed, and under such conditions the heart cannot long perform its function

A word as to the danger of sudden death from organic disease of the heart I do not believe this danger is sufficiently imminent to warrant us in placing it among the elements of an unfavorable There is no influence in the heart, per se, prognosis tending to cause sudden cessation of its action Cerebral embolism, it is true, may cause sudden death, but this, as already shown, is not frequent

The formation of a ventricular clot from healthy blood is not possible, except when the heart has developed asystolism, in which case the prognosis is already rendered grave, because of the physical condition of the heart I have never seen a sudden death from organic heart disease where the diagnosis was assured and the cause of death referable to the And were the actual cause known of the many sudden deaths which are laid at the door of this hardworking and long-suffering organ, I believe the vast majority would be found due to causes extraneous to the heart, probably some circulatory disturbance, or tissue degeneration of the nervous centers, causing a lack of the proper innervation of the The fact at least remains, that in organic heart disease of the heart sudden and unexpected death is a marked exception to the general termination, and if this be true in diseased conditions, what cogent reason can be given for attributing sudden death to the heart, in persons who have never given any evidence of cardiac disease

From the foregoing we would derive the following

The prognosis when compensation is obtained is better in aortic stenosis and in mitral regurgitation than in aortic regurgitation, or mitral stenosis person with either of the former lesions, moderately severe and fully compensated for, may live 20 or 30 years and suffer no inconvenience therefrom

In aortic stenosis intercurrent disease of the lungs the prognosis in the former is somewhat better

In aortic regurgitation, and in mitral stenosis, the prognosis is not so good, because the eccentric hypertrophy in the former, and the dilatation of the left auricle in the latter, renders perfect compensation difficult

The more pronunced the lesion the more grave the prognosis, in direct proportion to the increase in intra cardiac pressure

Double lesions at one valve, or two distinct lesions at different valves, which have begun at the same time, render the prognosis grave in direct proportion to the increased liability to dilatation of the different cavities

SALICYLATE OF AMMONIUM FOR FEVERS

BID M WICK, MD, OF NEW HARTFORD 10% A

Last winter, in February, I was treating L P, a boy of 6 years, for remittent fever, the temperature varying from 102° to 103° I began with the classic al course hydrarg chlor mitis to arouse the secre tions, quinine as an antiperiodic, and veratrum and sp's with nitrosi as a febrifuge. At the close of the second day of treatment, he broke out on face and neck with a bright scarlatinoid eruption, resembling very much that of scarlet fever The parents be came greatly alarmed, fearing that the boy had scar-Assuring them that he had not, and that the eruption was caused by the powders, I continued the same treatment The next day the eruption was still more diffused over the whole surface of body. with intolerable and incessant itching and fever as high as at first visit For another day (the fourth) the same treatment was persisted in, only to aggravate the erythema, cause cedema of face, hands and feet, and with the itching, that had persisted from the first appearance of the quinine exanthem, made my little patient more restless and miserable The fever had now increased to 103° morning and 104° evening I had never used salicylate of ammonium, but thought this would be an opportunity to test its value as an I had read the papers of Drs Jackson, antipyretic Barnett and Sullivan Leaving off all the former medicines, I dissolved 5ss salicylate ammonium in 511 aquæ and ordered i teaspoonful every two hours

I saw the patient again in eight hours, and found him with temperature reduced to 99 5°, resting quietly and sweating profusely Continued the dose the same and lengthened the interval to four hours Next day the temperature was normal, tongue becoming clear, eruption disappearing, and the boy feeling so well that he wanted to be up and dressed He made a rapid recovery

been sick nearly one week when first seen him on the orthodox treatment, and continued it one week, during which time his fever was never below 102° nor above 104° He had a hot, dry skin all the time

I again dropped all other drugs and gave salicylate of ammonium, gr 1j, in water every two hours In about eight hours his temperature fell to 99° and he was bathed in perspiration Continued the dose once in four hours Saw the case next day and and was soon able to be around

May P, a girl of 11 years, had measles The disease pursued its usual course and the eruption receded as in other cases But the fever, which had ranged high throughout (from 102° to 104°) continued An active diarrhoa set in, her tongue was dry and heavily coated, and sordes was on the teeth She was now in a semi-delirious condition, with a temperature of 105° I had no trouble in controlling the boxels with mineral acids and small doses of opi-Despite the frequent bathing, quinine, gelsemium and aconite, the fever kept on as high as ever

After five days of this course she was no better, save that her bowels were more quiet The skin was dry, temperature 105°, with considerable nervous disturbance, and still semi-conscious As the case was assuming a very serious aspect, I again resorted to the ammonia treatment Dropping all other medicines as in the former cases, I ordered 2 grains every hour until she should sweat The nurse told me the next morning that after giving the fourth dose she began to sweat, and by the time the fifth was to be given, her clothing was so thoroughly saturated that the time was lengthened to four hours Her temperature was normal, pulse soft and regular, though weak, tongue moist for the first time in five days and showing evidence of becoming clean From this time she gained rapidly without one unfavorable symptom, and in one week was up, and soon recovered

Netta B, a frail and delicate girl of 7 years, was attacked with whooping-cough, which ran a severe course for two weeks and then, insidiously, the case took on broncho pneumonia Temperature rose to 104°, breathing hurried, oppression excessive, the lips and face turgid and cyanotic, pulse rapid Gave her a mixture of carbonate of ammon, acetat potass, syr ipecac, and tinct nux vomica as a cardiac and respiratory stimulant, alternating with small doses of qui-After using this treatment four days, the fever not abating and other symptoms becoming worse, I again quit all other drugs and adminimistered 2 grains of salicylate of ammonium every two hours until free perspiration occurred, which was after the sixth dose The fever subsided, respiration became easy and expectoration abundant. The temperature did not return above 101° for several days Although it is a peculiarity of broncho-pneumonia to lull, and give a deceptive promise of amendment, I am convinced that the remedy acted promptly in lessening the fever, for after the second and third invasion of the The next case in which I used the new drug was bronchial tree, with temperature of 104° and 105° also one of remittent fever A boy, 5 years old, had (that after four weeks proved fatal), the salicylate of I put ammonium each time brought the temperature down to 101° or 101 5°

I have given this form of ammonium in other cases, but did not have the opportunity to watch its effects as in the above In the first case reported, I was forced to seek some other remedy, from the unpleas ant effects of quinine. In the second, I had not yet become interested enough in the new drug to give up the old form of medication, while in the third, I once in four hours. Saw the case next day and thought the little girl too dangerously sick to try new found no fever, tongue clean, skin moist, and the remedies. In the fourth I was desirous to test its boy in every respect improved He had no relapse, virtues only after first using the ordinary plan of

treatment

What is there in salicylate of ammonium that arrests high fevers so abruptly? Had the quinine, in the two intermittent fever cases, neutralized all malarial poison and, when the salicylate was given, ushered in the sweating stage? Or, was it the germicidal, antiseptic and antipyretic powers of the salicylate that ever, possible by a few minutes' manipulation and acted so happily? May it not have been the supplying the nitrogenous waste with the ammonia? There that the foot does not readily spring back into its old is a something in its make-up that subdues arterial tension and chemically destroys the microorganisms the surgeon and gradually but persistently unfolded Its effects seem to be as marked in in the blood one case as in another, whether malarial, measles, or whooping-cough complicated with broncho-pneumo-Professor W S Haines once said to his chemistry class that he believed it possible to so perfect the science of chemistry, and so thoroughly understand disease, that we may neutralize and destroy the disturbing element in the system with the proper not by fits and starts, but continuously and persistchemical, timely and scientifically administered The three patients recovered rapidly, while in the one with whooping-cough the fever was greatly reduced three different times

The drug is not stimulating, but rather depressing, and should be carefully watched when given to children in doses of from 2 to 3 grains every one or two hours, and should depression occur, use some diffusible stimulant I have thus far used Mallinckrodt's preparation and given it in pure water, which makes a pleasant medicine that children take readily

MEDICAL PROGRESS.

OPEN INCISION AND IMMEDIATE RECTIFICATION IN CONGENITAL CLUB-FOOT —In an article on this subject read before the New York Academy of Medicine, on Dec 12, Dr Charles N Dixon says

A description of the treatment of club-foot will be facilitated by a division of the deformity into the following three classes I Those that can be easily reduced by manipulation 2 Cases in which there are contractures of fasciæ and tendons 3 Cases in which all the tissues are greatly shortened

It is a common observation that certain cases of club-foot in young children, when handled and manipulated, can easily be placed in a normal position, whereas in other cases in which the deformity is less basis marked, little can be effected without the aid of the It is only in this first class of cases that manipulation and fixation will lead to a permanent result In the great majority of cases it is but a waste of time to attempt to treat the deformity without di-

It has been my practice, previous to any operative interference whatever, to subject the foot to a thorough process of manipulation and in this way discover the amount of resistance that it is necessary to overcome with the knife, and at the same time elimmate all fibrous bands and adhesions that readily yield to the force of the hand much experience in the treatment of talipes must division the distortion can be reduced

have observed, that even in the infant under chloroform the clubbed foot, when pressed by the hand or other force, into the best position it can be made to assume, immediately on removal of the pressure springs back into its abnormal position It is, howpressure so to overcome the resiliency of the tissues position If the foot be grasped by both hands of and twisted into a normal position, at first it gradually yields and becomes improved in position, but soon the shortened structures on the inner side of the foot become tense and refuse to yield, it now becomes a contest between the muscles of the surgeon and the resistance of the deformed tissues the force be steadily continued and even increased, ently, the soft tissues still further yield, the bony surfaces glide on each other, and the foot assumes a position more nearly approaching the normal than would have been thought possible If at any time during this operation there seems to be danger of fracturing the bones, the force used should be intermitted but not entirely let up If the operation is well performed, at the expiration of ten minutes or so the elasticity of the tissues seems to be exhausted and the foot lies limp and flaccid, without that tendency to spring back which it had previously pos-More can be accomplished in ten minutes by manipulation in this way than by ten weeks of plaster dressing according to the old method It must be remembered however, that only the simplest cases can be successfully treated without operation, but this preliminary manipulation should form a part of the treatment of club-foot in all its various de-Most cases will require at least division of the tendo-Achillis and plantar fascia, and the general rigidity of the foot should be the guide in determining the further extent to which the tendons, fascire, and ligaments need division

Whenever the tense structures on the inner side of the foot prevent its unfolding and rectification, owing to their short condition, they should unhesi-In this way tatingly be divided by open incision the time necessary to a cure is shortened, the tendency to relapse is diminished, and the treatment of congenital talipes is placed on a sound anatomical "More can be done As Dr Phelps puts it with a scalpel or tenotone in five minutes than can be accomplished in weeks and often months by all the mechanical appliances known to surgery "

In the second and third classes of cases operative procedures are always necessary As Dr Lewis vision, at least, of the tendo-Achillis and plantar Sayre well says, "contractured tissues cannot be fascia" The distinction between these two classes of cases should be left to the judgment of the surgeon

It should be our aim to produce rectification of the deformity, with as little operative procedure as In many cases the subcutaneous division of the plantar fascia, together with one or more ten-All who have had dons, will be all that is necessary, and after their But if after

subcutaneous division of these structures the foot cannot be replaced, it is better to perform the open operation and divide the tendon of the tibialis pos ticus, the internal lateral ligament, and all other tis sues which offer resistance to the complete redress ment of the foot, if necessary, extending the incision to a linear section of the astragalus and other bones

Operation —The method of operation is as follows Thorough antiseptic precautions being observed, so to the Morris Schede method bloodless by means of an Esmarch bandage the tendo Achillis is divided subcutaneously, and the far back as one will foot thoroughly flexed, so as to overcome the equi Then an imaginary line is drawn from the process of the internal malleolus to the tuberosity of the Taking the middle portion of this scaphoid bone line, an incision is made downward and slightly back ward, across the inner side of the foot, following the direction of the transverse winkle for a distance of an inch and a half The nerve and artery may be protected by being drawn to one side of the wound by means of a blunt hook, which is held in the hand The foot is gradually unfolded, and of an assistant the shortened and contracted structures are divided as they present themselves and offer resistance to replacement, in the following order skin, connective tissue, tendons of the tibialis posticus, flexor longus digitorum, abductor hallucis, flexor hallucis longus, together with the internal lateral ligament A teno tome should then be glided beneath the skin, so as to divide the plantar fascia and the muscular structure of the flevor brevis digitorum These tissues should be cut by a series of nicks rather than by a The wound is allowed to fill prolonged incision with coagulated blood, and dressed with Lister's protective, sublimate gauze, and a plaster bandage the end of which time the wound should be healed

After-freatment --- After the wound is entirely The glass shoe, if it does patient is allowed to walk not become wet, retains its shape for six to twelve Hausmann, of Hamburg, recommends for the after-treatment a shoe which is made as follows The toes are thoroughly padded with cotton-wool, then the foot is covered with a woolen stocking strip of tin one inch in width is applied along the still moist, the plaster cast is cut down the dorsum condyle of the femur to the head of the fibula The shoe thus formed is thoroughly dried in an oven, and covered with leather, so as to make a shoe which can be laced up and removed from time to time -Medical News, Jan 21, 1888

Excision of the Tongue for Epithelioma. BARWELL describes his method and its application in a recent case as follows

The method is this Strictly in and along the middle line an opening is made about one-third of an inch long immediately in front of the hyoid bone, through the raphé of the mylo hyoid The genio hyoid and genio hyoglossus muscles are separated with the handle of the scalpel until the deep surface of the mucous membrane forming the floor of the mouth is reached By means of Liston's needles carried under this membrane to, or even beyond, the last molar teeth, threads are passed on each side as to secure organization of the blood clot according into the buccal cavity, which in their turn draw flex-The foot is rendered ible wire-twist, first into, then out of, the mouth, in First, such wise as to surround the base of the tongue as An écraseur working with this wire severs that part of the organ Then the loop of another ecraseur is passed between the teeth. pressed well down on the first incision, and divides the structures beneath the tongue

In this way, then, I operated on August 6th, on George G, aged 47, who had a large epithelioma on the left side of the tongue, behind its middle, the induration, however, extended very far back and across to the other side of the organ No enlarged glands could be felt The ulcer was extremely sensitive, eating and even swallowing caused pain and trouble to him, while the very foul condition of the mouth took away all desire for food During the operation but very few drops of blood were lost Very soon after recovery from the anæsthetic he wrote on the slate that he was pretty comfortable Aug 8 there had been a copious flow of saliva and other secretions from the supra-hyoid wound patient daily took a large quantity of milk and beef tea, with, he says, more ease than he had done for a long time The wound was frequently syringed and the mouth rinsed with a 1 in 60 solution of carbolic acid, and the breath was hardly at all tainted 24th On the 16th the man could comfortably eat finely The first dressing is allowed to remain four weeks, at minced meat, and had gained flesh since the last re-30th He left the hospital, the tongue nound being firmly cicatrized on the 27th He was able healed, a water glass shoe is applied, with which the to eat very well, and for the last ten days has been able to enunciate with considerable distinctness -Lancet, December 31, 1887

OSTEOTENORRHAPHY FOR RUPTURED PATELLAR TENDON -In the case of a woman, æt 60 years, who ruptured the inferior ligamentum patellæ, CECI performed osteotenorrhaphy by a new method dorsum of the foot, in order to protect the skin when When he saw the patient two days after the accident the shoe is cut off A sole formed of stiff paste- the knee was considerably swollen, there was a hard board is fitted to the foot, and over this another lump under the patella, and on the tuberosity of the A plaster bandage one and a half tibia, where the tendon is attached, was a gap Cominches in width is then applied to the foot, so as to pression was tried for four days without result, and form a shoe extending up to the ankle joint While Ceci then made an oblique incision from the internal opening the joint the capsular ligament along the whole anterior and lateral border of the tibia, including the internal ligament, was torn from the tibia, the inferior patellar ligament was drawn up and fixed by fresh, easily broken-up adhesions washing out with a 2 5 per cent solution of carbolic acid, Ceci bored obliquely through the lower border of the tuberosity of the tibia, by means of his borer for suture of the patella, carried a strong silk thread | put into the cavity On the third day the dressings through, then 3 cm above the site of the rupture, through the patella ligament, and tied it Several fine sutures were carried through the ruptured bor- hæmorrhage was arrested by pressure der of the capsule The skin was then sutured No mon carotid was tied in two places at the level of The patient recovered without fever, with perfect, functional use of the knee - Centralbl f Chirurgie, No 51, 1887

ANYLENE HYDRATE AS A HYPNOTIC -DR AVILIES draws the following conclusions from recent trials of

this drug in Riegel's clinic

I Amylene hydrate is a hypnotic upon whose action one can depend when a sufficient dose is given Comparative trials have shown that amylene hydrate is stronger than paraldehyde, but weaker than chloral

Amylene hydrate acts on people that are accustomed to hypnotics, though it is not necessary to

give larger doses than 4 grams

3 Sleep usually comes on quickly, and without a This sleep is deep or light acstage of excitation cording to the size of the dose, though it is always easy to awaken the sleeper When the person is awakened he is always clear, answers readily, and goes to sleep again if left undisturbed

4 With small doses the sleep lasts from two to three hours, and with large doses from six to eight hours (the larger doses being from 2 to 3 2 grams)

The respiration is not changed by the drug

6 Sphygmographic tracings taken by Riegel on different patients showed that the use of amylene hydrate does not cause any change in the pulse or blood-pressure except those that are normal to normal sleep

7 The patients never have the bad taste and smell after taking amylene hydrate, when they

awake, as they do aftertaking paraldehi de

8 It is not known yet whether a habit is formed But in none of the cases observed was it necessary to increase the dose after the drug had been re

peatedly given

Unpleasant secondary effects were observed in only two cases, and only three patients refused to take the drug It was used in different internal diseases, and had an especially favorable effect in icterus and icteric itching For these affections Eichhorst has recommended chloral, but amylene hydrate is better because it does not cause that weakened condition of the heart that chloral does contraindications to the use of the drug were found In severe disturbance or trouble of the stomach clysters are recommended, and the following formula tation of intestinal parasites may be used 3 grams of amylene hydrate, and 25 grams each of distilled water and gum arabic — Deutsche med Wochenschrift, No 1, 1888

LIGATION OF THE COMMON CAROTID IN A DIPH-THERITIC-SCARLATINOUS ABSCESS CAVITY -SELENkow reports the case of a girl, æt 9 years third day of an attack of scarlet fever she was taken IN COLLAPSE -DR ROSENBUSCH, writing in a Polish with diphtheria, and on the sixth day there was cor- journal, describes some cases of collapse from hæmasiderable swelling of the cervical glands on the right temesis and hæmoptysis in which hypodermic injec-After a week a large fluctuating abscess was tions of chloride of sodium acted most satisfactorily opened by a small incision, and a thin drainage tube | -Lancet, Dec 24, 1887

were stained with blood, which spurted out in a stream when the dressings were removed The comthe cricoid cartilage and cut There was left-side paralysis for about three weeks, which was still partial after six months, and at this time there were great weakness, chordic disturbances, and inability to concentrate the attention The patient answered questions slowly, and stuttered somewhat intellect, though not brilliant before, was weak There was no clear pulsation on the right external maxillary and temporal The left hand was held in extreme flexion and pronation, the fingers balled into a fist, and the thumb drawn into the palm. The patient could change this position only by a strong effort of the will During sleep the hand and fingers were spontaneously relaxed, to return to the abnormal position again when the patient awoke slight blow on the dorsum of the finger caused The muscles on the radial momentary extension side of the forearm were somewhat atrophied left foot was turned inwards slightly, and in walking the right leg was dragged a little -Centralbl fur Chirurgie, Jan 7, 1888

CHLORIDE OF DRUMINE -DR REID, the introducer of this substance to the profession, reports his use of drumine as follows

A short time ago I had occasion to treat a severe Having had a little drumine chlocase of sciatica ride on a filter paper I scraped it off, dissolved it in water, and then filtered it I injected min x of the solution, and in half an hour 3j of solution (strength unknown, as the powder was mixed with filter paper, it was weak, but it paralyzed the sense of taste on There was soon great relief, and ease the tongue) of movement replaced the previous stiff back, so that the patient walked easily down stairs in an hour, when the jarring of ordinary walking formerly gave him much pain No local or after effects appeared, although the powdered drug was six months old ---Australasian Medical Gazette, October, 1887

Antipyrin in Epilepsy —Lemoigne concludes that in most cases of epilepsy antipyrin is inert, and that the cases in which benefit may be expected from it are

I Cases in which epileptic seizures are induced by menstruation

2 Cases in which paroxysms are induced by iiii-

3 Cases in which the attacks are attended by mi-

graine

In these cases antipyrin in doses of grm 2 a day is superior to bromide of potassium - Gazette Med de Paris, Dec 24, 1887

Hypodermic Injections of Chloride of Sodium

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glid to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published All com munications in regard to editorial work should be addressed to the Editor

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CHICAGO, ILLINOIS

SATURDAY, FEBRUARY 11, 1888

CHRONIC ENDARTERITIS AS A CAUSE OF SUDDEN DEATH

A valuable contribution to legal medicine has just been concluded in the Nordiskt Medicinskt Arkiv, Bd xix, Nr 15, by Dr Algot Key-Åberg, of Stockholm, the title of which is, in English, "Contributions to the Knowledge of the importance of Chronic Endarteritis as a Cause of Sudden Death ' This valuable memoir will be published in the first number of the Vierteljahosschrift für gerichtliche Medicin for 1888, and will be thus more accessible to the profession

In the first part of his paper, which is a sort of introduction, the author notes the differences in the conception of the term "sudden death" from the physiological, pathological, and medico legal aspects, and points out the special importance of the medical jurist recognizing the various anatomical alterations of the human organism that may cause sudden This part of the paper contains an interesting historical review, showing the different opinions that have been held as to the nature and frequency of these anatomical alterations

The author then considers statistically the im portance of chronic endarteritis (Endarteritis chronica deformans, Virchow) as a cause of sudden death, as the term is understood in legal medicine The material upon which this part of the paper is based was furnished by 852 autopsies made at the Medico-legal Institute of Vienna between June 1, 1881, and June 1, 1886, on persons past the age of 14 years that died suddenly The following is a resume of his statistical researches made in the Institute

- I In 745 per cent of all the cases of sudden death, from a medico legal point of view, after the age of 14 years, death was caused by endarteritis chi onica deformans in one of its sequelæ
- 2 In the cases of sudden death mentioned, the sequelæ were, with rare exceptions, one of the following affections paralysis of the heart, rupture of the heart, rupture of an aneurism of the aorta or of one of its branches outside the skull, rupture of the aorta (comprising dissecting aneurism), and intracranial hæmorrhage Of 635 cases there was only one of embolism of the cerebral arteries, in all the others one of the causes just mentioned was the cause of death
- 3 In the cases mentioned, paralysis of the heart was the cause of death in 71 1 per cent, rupture of the heart in 2 4 per cent, rupture of aortic aneurism, etc, in 8 7 per cent, rupture of the aorta in 2 5 per cent, and intracranial hæmorrhage in 15 3 per cent of the cases
- 4 The cases of natural sudden death from a medico legal point of view, after the age of 14 years, gave the following proportions as regards the lethal causes paralysis of the heart 52 9 per cent rupture of the heart 17 per cent, rupture of aneurism of aorta, etc, 64 per cent, rupture of the aorta 19 per cent, and intracranial hæmorrhage 113 per cent
- 5 In the cases under consideration, in which sudden death was caused by chronic endarteritis, the male sex furnished decidedly the larger number This difference was not always so well shown as in the cases in which death was due to paralysis of the heart, or to rupture of an aneurism of the aorta In the first kind of cases the male sex furnished 645 per cent, and in the second kind about 79
- 6 Considered as a cause of paralysis of the heart and of sudden death from rupture of an aneurism of the aorta in the male sex, chronic endarteritis cannot be attributed to senility, since the majority of the fatal cases in these two categories of affections occur between the ages of 40 and 44 years
- 7 As a rule men die from paralysis of the heart due to chronic endarteritis at a less advanced age than women, and it is strongly probable that the same is true of the deaths from aneurism of the aorta seems then that we may draw the conclusion that chronic endarteritis is developed, as a rule, more rapidly, and that it is more harmful, to men than to
- 8 Intracranial hæmorrhages show, to judge from the small number of cases as compared with those of

rupture of the heart and of the aorta, about the same differences in the sexes as just noted

- 9 Social position and calling do not seem, as such, to have any appreciable importance in the etiology of any of the cases of sudden death from chronic endarteritis
- 10 There are more sudden deaths from paralysis of the heart during the first and last three months of the year than during the other six months, the winter season furnishes the greater number of such deaths
- 11 As a rule, deaths from chronic endarteritis are more frequent during winter, next in order of frequency are autumn and spring, and, lastly, summer

There is a possibility, that the author recognizes, that the conclusions drawn from his observations may be influenced by local circumstances, and that in other places than Vienna they might be different

In the concluding portion of his memoir the author considers the presence of chronic endarteritis in the coronary arteries and at their openings into the aorta as a cause of sudden paralysis of the heart is a noteworthy fact that in 33 cases of paralysis of the heart due to chronic endarteritis, which he examinea post-mortem, in 22 there were sufficient reason for regarding the paralysis as the effect of arteriosplerotic changes in the coronary arteries or their mouths He gives the details of 13 autopsies in which death must have been considered as caused by paralysis of the heart exclusively attributable to the arterial Particularly interesting is the sclerosis in question account of the microscopic examinations in these cases, in which the results arrived at are at variance with the opinions generally held especially in regard to fatty degeneration of the heart He makes five special points 1 In 4 cases of 13 fatty degeneration and necrotic softening of the muscular tissue were abso-2 In 2 cases of myomalacia of the lutely wanting heart there was fatty degeneration of the muscular tissue in 1 only, and then only in the immediate vicinity of soft region 3 In 2 cases the isolated trabeculæ of the left ventricle, and in I case one of the papillary muscles of the same part, showed fatty degeneration with coarse granulations 3 cases, in that part of the wall of the right ventricle situated below the trabeculæ, there was finely granular fatty degeneration between the bands of interstitial fat, while at the same time, in 2 cases, smaller regions contiguous to parts of the left ventricle altered in another manner, presented the degeneration mentioned, and in the third case the papillary muscles of the left ventricle showed finely granular fatty 5 In 2 cases only of the 13 did the have asked a thoughtful consideration

muscular tissue of the heart show fatty degeneration over a greater or more general extent of these cases the degeneration had invaded the whole region corresponding to the ramification of the left coronary artery, and in the other the whole heart was invaded by the finely granular form

A QUESTION OF PROPRIETY

Is it proper for a medical reporter having access to the ordinary clinical lectures in a hospital, to attempt to report in full the clinical lectures of a member of the hospital staff, and furnish the same for publication, without submitting a line of his manuscript to the lecturer for his approval? Is it proper for editors or publishers of medical journals to receive and publish what purport to be verbatim reports of clinical lectures without any evidence that such reports have been approved by the lecturer, and without even allowing him an opportunity to read the galley proofs?

We are constrained to ask these questions, partly from personal interest, but more for the benefit of lecturers and editors in general Three times in quick succession the editor of this journal has been surprised, on taking up as many exchange journals from distant cities, to find each opening with a clinical lecture by himself, reported by William Whitford, The first in order of time was on "Typhoid Fever," the second on "Acute Pneumonia-Tuberculosis," and the third on "Broncho-Bronchitis," for the meaning of which we shall have to rely upon the reporter, as there is no such title in our vocabulary We are familiar with broncho-pneumonia and pleuropneumonia, but "broncho-bronchitis" must be one of the new discoveries On looking over these lec tures we found them excellent specimens of the work usually done by stenographers who have not the experience or skill to keep accurately the lecturer's own modes of expression, or the education and mental discipline to enable them to grasp fully and Consequently clearly the ideas conveyed by them the so-called lectures, as they appear in print, present many omissions, many errors, many ideas or points but vaguely or imperfectly expressed, and not a few forms of expression belonging to the reporter, masmuch as they are never used by the lecturer, all of which might have been avoided if the reporter had submitted his manuscript to the lecturer for his correction and approval, or even if the editor had allowed him a glance at the proof sheets our editorial brethren will give the two questions we

ENPIANATION —Early Sunday morning, February 5, a fire occurred in the two upper stories of the building in which The Journal printing office is situated, from which the property belonging to THE windows of the room were broken and the room flooded with water, causing the interruption of our work for a day or two, in consequence of which this number appears with four pages of reading matter less than the full complement. We preferred this much shortage to any delay beyond our uniform day of issue

THE KANSAS STATE MEDICAL SOCIETY will hold its next annual meeting in Representative Hall, Topeka, May 1, 2, 3, 1888 The opening session will commence at 8 o'clock, PM Members and their wives will be passed over the railroads for one full fare going and one-third fare returning A full programme of work has been prepared Further information can be obtained from the Secretary, J E Minney, M D, Topeka, Kansas

THE ILLINOIS STATE MEDICAL SOCIETY WIll hold its next annual meeting in Rock Island, commencing at 10 AM, May 15, 1888 President, Wm O Ensign, Rutland, Secretary, D W Graham, Chicago, Assistant Secretary, Geo L Eyster, Rock Island

LONDON MEDICAL RECORD -The proprietorship of this valuable journal has been changed, and it is to be continued, with its name changed to the "London Medical Recorder "

SOCIETY PROCEEDINGS.

PHILADELPHIA COUNTY MEDICAL SOCIETY

Stated Meeting, January 11, 1888 THE PRESIDENT, J SOLIS COHEN, M D, IN THE CHAIR

DR CHARLES K MILLS read a paper on

THE TREATMENT OF NERVOUS AND MENTAL DIS EASE BY SYSTEMATIZED ACTIVE EXERCISES

(See page 162)

DR HOWARD A KELLY said Some six years ago, while living in Colorado, a friend and myself since died In spite of the condition of his chest he partially theoretical way was able in one month to add a full inch to his chest-

I was practicing at the same time, and capacity succeeded in adding three fourths of an inch to my own This gain was distinctly in chest capacity, and due to increased development of the muscles

I think that Blakie's great merit lies in the ex-Journal received no material damage, although the treme simplicity of the exercises directed, many of which consist in simple rhythmical movements of the Among his most elaborate apparatus for room exercise is a single bar placed between the jambs of the door We should, I think, bear in mind that gymnastic exercises are but the substitute in city life for what people get naturally in the country

A most important point is one to which Dr Mills has referred, that these exercises should be carried out in a medium of fresh air, and not in the super-

heated air of a furnace heated house

A word with reference to respiratory gymnastics When in Rostock with Professor Schatz I had some interesting discussions with him upon the subject of intra-abdominal pressure, and he suggested a series of questions One was, "In which case is the inti aabdominal pressure the greatest, when lifting a bucket of water with one hand, or when lifting two buckets with both hands?" I said that it was greatest when lifting one bucket with one hand, for then we make a column of the abdominal muscles on the opposite side, and necessarily increase both abdominal and intra-thoracic pressure, while in the second case. the strain comes upon the muscles of the back, and pressure is not increased. The keynote to the application of this subject to nervous diseases must be this, that deficient innervation is due to deficiency and irregularity In the circulation, and improvement of the circulation is what is accomplished by gymnastic exercises

THE PRESIDENT said I have long been interested in movement cures, and can recall an interesting case which was under my care in 1860, while a resident at Blockley Hospital A poor wood sawyer had lost the use of his lower extremities as the result of exposure to cold Not many months previously Dr Fayette Taylor, of New York, had explained his method of resistance movements to me, and I determined to try them on the right leg of this man, so once or twice a day I caused the man to try to move his leg against resistance, and moved it myself against his attempts at resistance Some weeks later when I was showing one of the attending physicians the improvement which had been produced in the right leg, the patient suddenly said, "Doctor that is your leg, now look at mine," and throwing off the cover he kicked his left leg vigorously Finding the benefit to the right leg so great, he had quietly practiced on the left leg on his own account, and had done much better with it

DR BENJAMIN LEE said It is now about ten years since the lecturer of to night published a lecture in which the views expressed this evening, and to which we have all listened with so much profit, were somewhat tentatively held It is gratifyfollowed the directions contained in Blakie's book ing that after this lapse of time he can come very carefully My friend was consumptive and has forward and substantiate what he then held in a

The treatment of nervous affections by gymnastic

exercises naturally divides itself into two branches the treatment of functional, and that of organic dis-In regard to functional troubles, I have always felt that the nerves on the whole are the best behaved parts of our economy, that all they want is good feeding When a nerve misbehaves it is because it wants nourishment. Not that the patient may not be putting enough food into his stomach He may be gorging himself, and yet the nerves may not receive a supply of nourishment which is of the proper quality, and adequate to the demands made upon them I believe that in the muscular system we possess the great lever to act upon nutrition, and if we make use of the muscular system intelligently, we can, in the majority of instances, supply to the nerves their needed nourishment, and in that formatory schools way overcome the functional nervous disease

My own experience with the use of active exercises alone in the treatment of such cases has been I have always combined with it massage and duplicated movements—that is to say, those in which the operator either makes a movement which the patient resists, or resists a movement which the The form of exercise in patient attempts to make which the operator makes a movement which the patient resists gives us one of the most powerful means of acting upon nutrition It is what we may term a duplicated excentric movement, or if the term be allowed, an excentric contraction By a concentric contraction of the muscle we understand that which every muscle makes in an ordinary movement, in which the muscle cell contracting in the direction of the axis of the muscle, the latter is in consequence By excentric contraction we understand shortened an effort at contraction on the part of the muscle in which the operator uses a greater force than the patient, and the muscle is really elongated instead of being shortened In this way, the nervous energy of the patient is directed most energetically to the muscle, and yet at the same time, as it is elongated, we are inviting into it an increased supply of blood

The lecturer has referred to the danger of these exercises being carried to excess. This is particularly true where the exercises are carried on in classes. It is essential in carrying out this treatment in nervous cases that each case should be treated singly on its ments.

When we come to the treatment of organic nervous affections, my experience has been that in the early stage of the disease at least, very little should be done in the way of active exercise. We should rely upon massage and passive exercise active exercise should be given in the way of carefully regulated duplicated movements Another important point is with reference to the early use of exercise in all forms of paralysis, and especially in I believe that there are hundreds infantile paralysis of crippled children and crippled adults going about, who, if their cases had been undertaken in the way described by the lecturer, as soon as the slightest trace of muscular power could be observed, would now be able to walk and have the use of their limbs

DR S S COHEN said Dr Mills has referred to the use of exercise in the treatment of criminals

presume that he means more especially the criminal insane It may, therefore, not be irrelevant to quote the views of Dr B W Richardson in reference to the prophylaxis of criminal insanity, or if these be too strong words, the rectification of the inherited moral obliquity which, conjoined with ignorance and misery, leads to law-breaking, by teaching those predisposed to a life of crime, to use their muscular and nervous energies in useful pursuits He would make the prospective forger an engraver, the prospective burglar a blacksmith or a locksmith, and so on arguments advanced by Dr Richardson can be found in a recent number of the Asclepiad, and are worth reading He calls attention to the high importance of this subject by illustrations from the re-He states that children who were unruly and could not be kept in order, have been rendered docile and obedient by having their nervous energies liberated in regular gymnastic exercises at such periods as experience has shown that disorder is most likely to occur

MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA

Stated Meeting, October 26, 1887

Vice-President, Dr D S Lamb, in the Chair

Dr Burnett presented a

PIECE OF BONE DISCHARGED FROM THE EXTERNAL EAR,

and said As the question of cerebral abscess following affections of the middle ear comes up for discussion to-night, I have thought it would be interesting to present a specimen and give the history of an interesting case. In November, 1882, Dr Busey requested me to see a young woman with an affection I found her of the middle ear and facial paralysis suffering from inflammation of the ear and facial On examinaparalysis of several month's standing tion I found the auditory canal filled with polypi The polypi were removed in the presence of Drs The facial paralysis soon disap-Busey and Adams The treatment was continued for several months and a number of polypi were removed Dilute alcohol was used to the granulations The treatment was discontinued for three or four months when she returned with the ear full of granulations I did not act so promptly and the symptoms were more In about eighteen months I redifficult to subdue moved a small scale of bone one-half centimetre in She then length by two millimetres in thickness went to office She had scarlatina in childhood In the autumn of 1884, she was attacked more violently than before the attack lasting two or three weeks He scraped the middle ear, the temporal bone was exposed and rough, but there was nothing to remove except the granulations which sprang up rapidly He scraped every week or two but found nothing to remove but the granulations She became worse through the winter until March when symptoms of pyæma I developed Dr Busey agreed with him in the diag-

There was neither pain nor redness over the rotunda mastoid They thought there was pus in the mastoid cells and called on Dr Thompson who drilled but The disease went on for four or could find none five months without any decided improvement times he would shake the bone but found nothing He could not tell the amount of disease in the temporal bone. There were signs of improvement when she determined to try the mind cure She remained under it during the fall and winter of 1885, and seemed to become very much better, but she kept on syringing the ear. In the spring of 1886 her sister removed the piece of bone presented from the external meatus the morbid process apparently ceased It is impossible to tell what the specimen is, but he thinks it a part of the semicircular canals Her intelligence is Smith's case up to the average

CEREBELLAR ABSCESS DUE TO DISEASE OF THE EAR

DR Jos H BRYAN, in opening the discussion said. I think in opening the discussion on an important subject like the one we have for this evening, it will be of greater advantage to the Society to figures will be found nearer correct middle ear disease, rather than to relate my own ably the most frequent, and the cerebellar the least so limited experience

middle ear ways result disastrously, if left to take care of themselves, in either one or more of the three direct sequalæ meningitis, phlebitis and thrombosis, and abscess of the brain prominently before us, why is it we meet with so any attention and allowed to become chronic, inter-

That secondary diseases of the brain arise from otitis has been known for a long time, according to Schwartze, since the time of Avicenna and Morgagni It is, however, due to the researches of such men as Toynbee, Sedillot, Virchow, Frolich and Schwartze, of our own time, to establish the different ways by which inflammation can extend, and the different forms of disease that can be developed thereby

The extension may take place from an acute outs, but it is generally due to the chronic form of inflam-At times it is very difficult to discover the path of the inflammation, especially when there is no caries present, or congenital opening between the tympanum and cramal cavity. In this connection the relation of veins and sinuses to the petrous is

Once having reached the labyrinth it can easily extend along the course of the facial and auditory nerves through the porus auditorious internus Probably the most common path is by direct extersion to the membranes, producing a septic leptomeningitis, and thence to the cortex of the brain The veins which drain the posterior part of the temporo-sphenoidal lobe empty into the superior petrosal sinus, and the septic matter which is absorbed by the sinus can be taken up by these veins and by a so-called retrograde phlebitis carried to the interior of the tempero sphenoidal lobe, thus giving rise to those cases in which the abscess is separated from The discharge stopped and the petrous bone by healthy brain tissue

Cerebellar abscesses generally result by means of caries and localized meningitis, as occurred in Dr

According to Schwartze, about one-half of all abscesses occurring in the brain are due to inflammation This is a higher per cent than of the middle ear that given by Lebert and Myers-which I believe is about one-third-but I think as the pathology of the disease is being better understood that Schwartze's The abscess give a synopsis of the advances in the pathology and may be found in either the spheno-temporal lobe, or treatment of abscesses of the brain resulting from is sub dural in the cerebellum. The sub-dural is prob-

Toynbee believed that the localization of the abs-I am glad that this Society has had an opportunity cess depended upon the part of the bone affected, of having its attention directed to the evil effects of but this does not always follow, as has already been this too often neglected disease—suppuration of the stated, the seat of the abscess may be some distance The chronic inflammations nearly al- from the bone, and separated from it by healthy brain tissue

From numerous observations made in the postmortem room, Mr Barker, of London, 1s led to locate With these facts standing as the abscess either over the roof of the tympanum, close to the squamo-petrosal suture, or on the posmany of these neglected cases? In the beginning it terior surface of the petrous bone, and in some cases requires very little attention to check a mild case of it extends from one to the other of these spots otitis media, indeed the inflammation occasionally Hence, he concludes that the abscess is usually subsides like magic Notwithstanding this we occa- found in the middle, or posterior part of the temporocionally meet with cases which have never received sphenoidal lobe, and that nine-tenths of them will be found to lie within a circle with a radius of threefering with the patient's comfort and endangering fourths of an inch, whose center lies one inch and one quarter above and at the same distance behind the center of the auditory meatus

When the cerebellum is the seat of the abscess it is usually found in the anterior and outer part of the lobe, just back of the posterior surface of the petrous

Although experimental physiology is rapidly locating the cerebral centers, I think they are not so firmly established that we can rely upon their disturbance in all cases to the exclusion of the general subjective symptoms, but they are of very great value when taken in conjunction with the general signs Owing to the inconstancy of the subjective symptoms we frequently find it very difficult to make a diagnosis, and much more so to locate the abscess It is not an uncommon occurrence for the abscess to revery important, as is also the fold of the dura mater main latent for a long while, to break out only upon which extend sdown into the squamo petrosal suture the receipt of a blow on the head, a fall, or after of the tegmen tympani The inflammation may ev- some undue mental strain During the latent period tend to the labyrinth through the fenestra ovalis and there may have been no symptoms pointing to the

brain lesion. What are we to rely upon to make our doned for the flap operation. Great stress is laid diagnosis? It is only by carefully considering all the upon the fact that the flap must be so outlined as to symptoms, both general and special, that we can hope preserve in its attachment either the superficial, temto come to any definite conclusion not of much value as a symptom of localization, for 1t has been customary to reflect the periosteum as a it frequently happens that the abscess is in an entirely different part of the brain than that indicated by the in that the membrane is easily torn and lacerated Diplopia and optic neuritis, when present, are of value—for the latter symptom is frequently wanting The temperature, which runs up to 102° and 103°, accompanied by rigors, to fall later on to subnormal, is a valuable sign. The pulse is generally Mr Barker calls special attention to this subnormal temperature, which was much lower in the had been possible to locate the abscess in Dr Smith's The above-mentioned sympevening in his cases toms, together with the frequent nausea and vomiting, and what special signs there may be present, especially following in the wake of a chronic suppuration of the middle ear, we can in most cases come to a When the abscess is associated definite conclusion with meningitis, or phlebitis and thrombosis it is impossible to make a diagnosis

The prognosis of abscess of the brain is far more favorable than it was formerly, and we have something more to do now than simply to make our diagnosis and wait for the autopsy to confirm it Through the labors of M Lucas-Championiere and Mr Victor mations of the ear Horseley, the skull has been mapped out and such definite directions given that we can enter the cramal cavity and open an abscess of the brain with almost as much safety as one occurring in other portions of

our attention to its cause

It is an unfair reflection to cast upon otology to say that the advances made in the treatment of abscess of the brain has been greater than those for the treatment of its cause—chronic suppuration of the We are to-day able to cure a great many of those chronic cases which a few years ago When the inflammation were pronounced hopeless does not subside under mild treatment, then radical cure or Schwartze's operation should be done, and the parts can thus be kept perfectly drained so that the possibility of sepsis is greatly diminished the disease has advanced and the abscess formed, meningitis? then the skull must be opened, at the same time

keeping up the drainage from the ear

The great questions to be decided in operating for abscess of the brain are when and where to apply the trephine trephine as soon as we feel convinced that there is an abscess, and not to wait until the vital forces become exhausted and the patient is in a comatose Knowing that nine-tenths of the abscesses are to be found in what is called the "dan- nasal douche which caused inflammation of the midgerous area," we would naturally apply our trephine dle ear and meningitis, and the patient died somewhere in the circle described by Mr Barker, if should impress parents with the gravity of diseases we decide the case to be a cerebral or subdural ab- of the ear and the importance of early treatment to draw a line from the post-occipital protuberance accompaniments of teething, and that they will get to the tip of the mastoid process and apply the trephine at the middle of this line By this means there acid to excel all other remedies is no danger of entering the lateral sinus Horsley the inflammation does not extend too far insists that the old crucial incision should be aban-

Headache is poral or occipital arteries. As regards the reflection, separate layer, but this has an obvious disadvantage This is obviated by reflecting it in continuity with the rest of the flap

The incision for the flap in cerebellar operations should be a curved one, commencing at the postoccipital protuberance running downwards and terminating at the apex of the mastoid process. If it case, I think it would have been a favorable one for It would be interesting to know the damoperation age to the petrous bone It seems almost impossible that so much destruction of the interior of the bone could take place with no other symptoms resulting

than those given in the record of the case

This is a very interesting ques-Dr Burnftt tion, and it only needs somebody to start the subject, so he would offer a few thoughts The main question is respecting the treatment, and, with due deference to general surgery, there has not been much advance made in treating the complications of inflam-They should be treated early The general practitioner orders the usual treatment for otitis and the discharge ceases. The ear is washed out, but the disease is going on all the time The mucous membrane is thickened and inflamed Before treating the abscess let us direct There is loss of nutrition and disease of the bone Patients must be treated The healing power is lost early and watched for months afterwards a return upon the slightest exposure, showing that The physician does not the disease was not cured His case has taught him a always see these cases lesson in bone surgery, so that if there is necrosis in The operation for that locality he will let it alone mastoid abscess is more frequently performed than At the last meeting of the Otological So formerly ciety there was an unusual number of specimens presented The journals are giving numerous deaths If If you empty the cerebral abscess do you cure the

The last three cases I had were DR REYBURN A girl, 17 years in the same family, and two died old, had scarlatina which was complicated with meningitis, there were evidences of pus within the cra-The first is answered by applying the nium and he wanted to operate, but the family would The next year a not allow it and the patient died He was about to boy of 20 was similarly affected operate when the patient was taken with convulsions The third death was from the use of a and died If it is situated in the cerebellum the rule is They usually consider that these diseases are natural

> Although it had not been his DR HERMANN

good or bad fortune to have to make a post mortem examination in a case of his own, he has had occasion to see quite a number of them during his hospital practice. He has seen many cases of purulent do with brain and ear surgery. Trephining in itself otitis media cured by timely treatment When neglected cases come into our hands and we find the bone denuded, we might at first try Wilde's incision, which sometimes is sufficient, but, as a rule, the ing, but the results were unfavorable original seat of the trouble being located in the mastoid cells, the opening of the mastoid bone either by chisel or trepan is indicated. The longer we hesitate the more chance there is for the development of a cerebral or cerebellar abscess Cases of this kind usually follow in the wake of measles, scarlatina or post-mortem examinations of children dying of a complication of scarlet fever with diphtheria, that taking out the walls of the auditory canal Trephinthe tympanic cavity is filled with a kind of pseudomembrane or exudation This diphtheritic affection of the middle ear is not always diagnosticated and the patients, in some cases, gradually recover apparently without there being any attention, perhaps, to the very slight symptoms indicating trouble in the would statistics encourage such an operation may get entirely well, but if the scarlatina or measles ful operations are being performed within the skull residuum of the exudation in the middle ear is not resorbed readily, and forms a nucleus of inflammation which results in perforation of the drum and consequent purulent discharge If this discharge is fetid it is significant of affection of the bone quently, when the bone is laid bare, it can be seen or felt quite easily after the ear has been thoroughly washed out-of course with a disinfecting fluid But if the caries is located in the mastoid cells—and this is frequently the case—we have to rely on other data for our diagnosis Fetor, constant headaches, pain on tapping the mastoid bone, fever and a number of other symptoms will soon enable us to make our diagnosis certain By performing Schwartze's operation on the processus mastoidous, by which he has with the parts affected, and allow the pus accumulated in those cells to escape instead of letting it work its way towards the brain find any accumulation of pus, but little harm is done by the operation If the bone is affected we should always operate and give the patient a chance

DR BURNETT was misunderstood about the operation which he meant to be applied to abscess of the Many men are opposed to operative interference and perforation of bone, and others cure without operation He believes in cutting into the mastoid, and in his case he went into a healthy

There is but little danger in tre-Dr Reyburn phining, and he has never seen a death from the operation, they die, but not from the trephining He saw two of the cases operated on by Victor Hors-When he reached the dura mater there was nothing unusual to be seen, so he cut into the brain and found the tumor imbedded in its substance The rarity operation was performed for epilepsy, and he saw DR SWITH

the man walking about the ward, and learned that there had not been a return of the attacks

DR J FORD THOMPSON has had considerable to is simple enough, the questions are where to trephine, the diagnosis and the prognosis Years ago the practice was very common as a means of searchnot to trephine, but to locate the abscess time ago Dr Busey and himself saw a case with Dr Prentiss A man 40 years old had earache which was followed by symptoms of pyæmia and the post-mortem revealed an abscess of the petrous bone which had ruptured into the lateral sinus He has had occasion to observe, in In Dr Burnett's case he opened the mastoid cells, but did not find pus No surgeon would think of ing will open the abscess and prevent its extension in the opposite direction Dr Smith only saw his case just before death, and it would have required nice diagnosticating to have made out the condition An operation would not have benefited him, nor If they have a good constitution they will open an abscess anywhere he finds it Wonderis followed by a long convalescence and general de- Dr Weir recently removed a tumor from the cerebility, then the ear trouble is sure to show itself The bellum, but the patient died Durante diagnosticated a tumor in the cerebrum over the orbital plate opened the side of the skull, elevated the frontal lobe and removed a tumor the size of an egg, and the If there is a guide to the seat, patient recovered as pain, paralysis, aphasia and facial paralysis, we can apply the trephine near enough When the disease is in the interior of the brain substance we have no such guides The practice of cranial surgery is attended with frightful mortality He recently saw a case which had received a blow months before, he soon lost interest in his business, and very soon coma He diagnosticated abscess of the brain, came on and the post-mortem confirmed it This was a case for operation if the diagnosis had been made earlier

DR GODDING had some instructive statements of saved many lives, we establish a free communication autopsies of the insane which were wide of their In children it is for the general practitioner to diagnosticate these affections they only come to If we should not him with the sequelæ that is, inflammation of the brain following scarlatina They are not cases of abscess of the brain going to a fatal termination Dr Blackburn has informed him that he has not seen a case of abscess of the brain We have seen tumors which he could not recall In one case the tympanum was perforated when the man was comatose, but pus was not found, he died either from abscess or meningitis, which could not be verified, as a post-mortem was not allowed A case of chronic mania of sixty years' duration, in which there were delusions and fantasies, but no paralysis nor sexual disordered function, was found dead A soft tumor was found in the cerebellum He had gone about without any of the usual evidences of such pathological conditions In 1,300 deaths the absence of abscess of the brain would indicate its comparative

To differentiate intercranial abscess

from disease of the internal ear is usually very diffi- last child she had miscarried at the third month pus and detritus passing one way and the inflammation the other patient died comatose In the next there was a dis- painful After recovery the pain in the left side charge from the middle ear and extensive cellulitis subsided One year ago the growth began to inof the neck He opened the mastoid, but the patient died brain from ear disease In another case the physician had told the family that the patient had pneuat the first doctor The autopsy revealed an abscess of the brain and also pneumonia Dr Prentiss reported a case in this Society The discharge from the ear had ceased Dr Thompson aspirated the liver, but did not find pus

in regard to the case reported by Dr Prentiss There was no dispute in regard to the existence of almost impossible to get at the tumor, and certainly an abscess, but its location was not definitely deter-The man had had one or two very severe rigors daily, attended with a fever varying from 105° to 106°, and a constant pain with acute exacerbations in the region of the lower lobe of the right lung There was a history of ear trouble, but at the time there was no symptom which directed attention to There was neither a discharge from the ear, nor any swelling or tenderness about it, nor any brain The constant and violent pains at the symptoms base of the right lung, together with marked circumscribed dulness extending above the liver surface, suggested a possible abscess of the liver pressing For this Dr upwards into the thoracic cavity Thompson aspirated, but failed to find any pus in The autopsy revealed an abscess in the brain, and a condition of the lower lobe of the right lung which was believed to have been caused by numerous emboli It is not impossible that a similar condition of the lung was present in the lung of the patient referred to by Dr Smith, and that the physician who made a diagnosis of pneumonia may not have been far away from the fact

CHICAGO GYNÆCOLOGICAL SOCIETY

Regular Meeting, Fridav, November 18, 1887 THE PRESIDENT, HENRY T BYFORD, M D, IN THE CHAIR

THE PRESIDENT presented a

FIBRO-SARCOMA OF THE UTERUS AND BROAD LIG-AMENT

This specimen of the fibro-sarcoma of the uterus is interesting, as having been obtained by one of the most difficult hysterectomies on record I have three hours after the operation of exhaustion the following notes of the case

married twenty-two years, having borne four child- The absence of menorrhagia in the history of the ren, the oldest twenty years of age, the youngest case corresponds with what is more often noticed in twelve years old Four times since the birth of her sarcoma

There may be a discharge from the ear, the Her present illness began six years ago, when she discovered an enlargement in the left inguinal re He has had three cases die from ear gion There was no pain connected with it, but the In one with disease of the middle ear the last miscarriage, three years ago, was extremely crease in size, and has grown very rapidly since In the last there was an abscess of the There was dull, heavy pain through the pelvis Two months previous to this time an exploratory incision was made and a diagnosis given of fibroma of The man died and the family were incensed the uterus, with numerous pelvic adhesions surgeon did not think its removal practicable August 4th I removed the tumor The operation was begun at 3 15 P M and completed at 7 15 P M The tumor, including the uterus, was about the size of a man's head I found the whole anterior sur-DR Busey desired to correct some misstatements face of the omentum firmly adherent to the abdominal wall above, and the tumor beneath, making it quite impossible then to made an ordinary explora tory incision It required about three quarters of an hour to get the omentum, whose veins were as large as goose quills, ligated so that I could free it from the surface of the tumor After enlarging the incision, I found a little space on the right where there were no adhesions All over the left side the small intestines were adherent, lying flat on the surface, while above and on both sides the colon, throughout its whole length, lay as if plastered upon the tumor Large blood-vessels could be seen run ning from the bowel on to the tumor If I could have lifted the tumor sufficiently to put an elastic ligature about the uterus I might have quickly enucleated it, but I could not stir it from its bed was a sarcoma that did not easily admit of enucleation, and bled profusely from the slightest wound The patient was anemic, had already lost some blood, and had been under ether for some time But I had to go on, for I did not dare to close the incision with the already disintegrated surfaces free in the abdominal cavity So by ligating dozens of places, cutting between some ligatures and enucleating under others, I finally got the tumor so that I could raise it a very little Over two hours were thus consumed before I succeeded in fieeing it above and tying the ovarian vessels of the left side I then rapidly enucleated far enough down to apply an elastic ligature, using all of my hemostatic forceps in stopping bleeding points. But the uterus had grown into the broad ligament and was firmly attached to the pelvis, so it could not be enucleated out of its vascular surroundings, but had to be ligatured at and against the pelvic brim on the left The pedicle, as you see, was about the size of a man's thigh, and is traversed on one side by the en larged uterine cavity It was treated by Hegar's extra-peritoneal method The patient died fortygreater extent and vascularity of the adhesions, as Mrs E W, American, aged 40, widow, had been compared with fibroma, were well illustrated here

DR ETHERIDGE -Will you tell us how you freed | quested to meet him the colon from the tumor, and whether the bladder

nas implicated?

THE PRESIDENT - The bladder was not impli-In freeing the colon I took stitches through the capsule of the tumor and ligated separately the large vessels on the other side and cut between In some cases I used hemostatic forceps on the tumor side, in others I enucleated

THREE PELVIC PRESENTATIONS, WITH DEEP LACERA-TION OF THE PERINEUM

The three cases of breech delivery here reported occurred in close sequence in my private practice Being unusually severe labors, and having certain points in common, they impressed me as being worthy of report Taken collectively, they suggest discussion as to the management of labors with this presentation

Case I - Mrs W, American, æt 26, primipara, was taken with slight labor pains 4 A M, May 7th, 1887 At 2 A M, May 8th, Dr Colton was called trol of the rectum to-day and found the breech presenting, S L A os was but partially dilated, and the pains extremely irritating, he administered opium and chloral Rest. with gradual dilation of the os was thus obtained for the next twenty-four hours, when I first saw the os still not sufficiently dilated, the breech not being 24, 1887, I was called to attend her in her second I advised non-interference and a contin- labor uance of the opium per rectum

At the end of twenty-four hours I was again sent for Water had been escaping for hours, the breech rested on the perineum, the patient was exhausted by seventy hours' labor, and the fetal heart could not be heard The doctor had made long and faithful efforts to assist the delivery, but the body was apparently impacted in the pelvis and would not With great difficulty I succeeded in bringing down a foot, and at length delivered a

lifeless twelve-pound boy

The after-coming head caught in the superior strait and its extraction with forceps caused a laceration of the perineum to the right side of, and beyond, the anal sphincter The soft parts were so deemed unadvisable

The perineum was partially repaired by granulation during a tedious convalescence of five weeks

Secondary operation will be required

Case 2 -Mrs M, a stout young Bohemian, æt May 13th, 1887 Dr Michelet in charge first stage of labor was tedious and extremly painful The membranes ruptured at the end of twenty silver sutures hours For three succeeding hours pains were severe and expulsive, when the patient became exhausted and labor ceased Dr Nelson was called in and advised stimulants, quinine and opium patient slept several hours, awoke refreshed, and the pains returned with strength and regularity

We found the breech resting on the perineum, the body firmly impacted in the pelvis, and the child dead Persistent efforts at extraction had been made, leaving the vulva bruised and swollen and the permeum rigid The patient having been put under ether at the request of the others, I engaged a blunt hook in the anterior groin of the fetus and gradually succeeded in extracting The forceps were then applied to the the body DR I SULDAN KNON read the following report of after-coming head. Its delivery caused a laceration of the perineum through the sphincter, and about one inch up the recto vaginal septum The weight of the child was ten pounds

Under the most disadvantageous circumstances Dr Nelson successfully closed the rent, using three silver sutures in the septum and four in the perineum

Antiseptic post-partum treatment was adopted, but the patient had septic fever On the eighth day feces escaped per vaginam Examination revealed no union, and the stitches were removed The patient was four weeks in bed For two months she was confined to the house She has but little con-

Case 3 —Mrs F, a robust American woman, æt 36, was confined four years ago, in New York, with After several hours of distressing her first child labor a dead and mutilated child was instrumentally extracted I could not learn whether craniotomy Finding the membranes unruptured, and the was practised or not On the morning of June I found the vertex presenting high up L O The first stage of labor lasted thirty-six hours, when, the os being fully dilated, I ruptured the Hard expulsive pains succeeded for membranes three hours, when, finding the head did not engage, I attempted the high application of the forceps

The blades were introduced and locked without difficulty, but each attempt at traction caused them to slip backwards over the crown of the child Owing to the great obliquity of the head, this always occurred in spite of extreme depression of the handles and downward traction Anesthesia was then produced, the hand introduced, and podalic version

easily accomplished

The after coming head became impacted in superior strait, requiring the forceps Fifteen or twenty swollen and contused that immediate stitching was minutes passed before it could be disengaged and delivered By depressing the handles of the forceps between pains I succeeded in getting some air to the child, and thus finally delivered it alive

of child, twelve pounds

My best efforts could not save the permeum, 22, fell in labor with her first child the morning of which was torn through the anus and one inch up The the recto vaginal septum After the delivery of the placenta, I repaired the laceration with two deep The upper stitch was inserted on a level with the lower vaginal commissure and passed entirely around the recto-vaginal rent The second stitch closed the perineum above the sphincter ani The rectal sphincter not having been repaired, the condition of the patient was similar to that after operation for anal fistula The stitches were re-Thirty-nine hours from the commencement of the moved on eighth day, finding the perineum healed labor Dr Nelson was again called in and I was re- The patient was up and about in two weeks, appar-

October 13th, the rectal tear of judgment ently as well as ever not fully healed, but sphincter under full control My impression is that no further operation will be comfort would have followed the closing of the

required

In reviewing these cases I was impressed with the danger to the fetus in delay of delivery after the membranes have ruptured Until then, breech presentations should not be interfered with, for the dilation of the os is slowly accomplished, and the membranes should be kept intact as long as possi-This long first stage, however, is apt to exhaust the patient and make her irritable We thus get spasmodic rigidity of the os tincæ and perineum

After the rupture of the membranes, and the protrusion of the breech into the vaginal canal, the rigid perineum is apt to cause the flexible body and folded limbs to pack in the pelvis, and delivery is If this retardation continues, tonic uterine contractions are induced, and the child dies asphysiated, or uterine inertion comes on and the fetus slowly dies from compression In the cases reported, the large size of the children, and the easy delivery of the after-coming heads, show that impaction was not due to disproportion between

the pelvis and the fetus

These successive complications I believe are present in some degree in all breech presentations The novelty of the situation, with its pain and anxious forebodings, tends to make such parturients nervous and irrritable Under ordinary conditions, breech presentations should be severely let alone until the breech has cleared the The bag of waters can scarcely be left too long unbroken, the folded body best prepares the way for the after coming head, and, therefore, the hausted in attempting to dilate the perineum and extremities should not be brought down Tractions lead to extension of the chin and the passing of the arms above the head, and, therefore, ordinarily are unwise and vicious

In cases, however, like the first two reported, there must be a departure from the ordinary methods, to avoid the ill results that followed

In a prolonged first stage, the resulting irritability of nerve and muscle can largely be avoided by a free use of opium guarded by belladonna is thus secured, strength conserved, the os tincæ becomes relaxed, and the permeum distendible

After the rupture of the membranes, the descent of the breech should be encouraged by pressure upon the fundus uteri during each pain At the same time, two fingers in the vagina depressing the permeum would prevent impaction and increase the energy of the uterine contractions Should impaction threaten, anasthesia should be induced, the feet brought down and tractions made, always, however, following the descending fetus with com-This outline of treatpression of the fundus uteri ment is, of course, to be modified by the idiosyncracies of the patient or peculiarities of the case

Each of the three patients reported was deeply Each laceration was treated differently

were so edematous and bruised as to forbid expecta- the head, or whatever the presenting part is, reaches Case I was not operated upon I believe this to have been an error the perineum. You have the advantage of the reflex tion of union

The edema soon subsided, there was no sloughing, and partial repair at least with much The mere apposition of the parts without wound union is a great advantage to the patient, as illustrated in Case 2

The latter was far less distressed during the first week of her lying-in, though her laceration was much

more grave and no union resulted

In Cases 2 and 3, both lacerations passed through the sphincter ani, and about an inch up the rectovaginal septum In Case 2, the whole wound was carefully closed with seven silver sutures union resulted Septic fever was, however, present In Case 3, but two sutures were used, one closing the vaginal rent and the other the perineum. The deep anal fissure was left untouched Good union followed

I believe these opposite results had their origin in the management of the torn sphincter ani deep lacerations this muscle is a born disunionist, and chases under the restraint of a stitch It should The end be excluded in the closing operation sought is to restore the integrity of the perineum Even the rent in the recto-vaginal septum, unless

extensive, is of less importance

Perhaps it would be more DR D T NELSON appropriate for me to say something later in the discussion, but as I was cognizant of the first part of the history of the case, it may be interesting to state the condition of the patient before Dr Knox saw her and kindly assisted, for I assure you we wanted not only his brains but his muscles The attending physician and myself had become completely excervix and make ready for some one to deliver believe I never saw a more rigid perineum, the cervix had dilated fairly well, but slowly and tediously, assisted I believe, by opiates—chloral had been given by the attending physician before I saw her In theory and practice I have no doubt of the importance of aiding dilatation of the perineum when it does not dilate satisfactorily This was one of those cases, rarely found, in which it was exceedingly difficult, almost impossible, to dilate Considerable had been accomplished before Dr Knox saw the patient, and yet I am sure he would be ready to testify that the perineum was not well dilated, and more, that it It was ruptured before it was was not dilatable As to the wedging of the fetus into the dilated pelvis or into the lower strait, it was to me an interesting fact, and I think I have seen it several times before It ordinarily means the death of the fetus Thus wedged in, when dead, the fetus is, so to speak, a ball of putty which can be crowded by the forces above into a mass against the resisting medium, whatever it may be Pains had been increased by the manipulations in dilating the perineum, and I think that is an important advantage in many cases of difficult labor, that by attempting to dilate the perineum the pains will be strengthened, just as they The soft parts are ordinarily in a normal condition of things when

muscular contraction which makes the pains very But we had become exhausted much more powerful patient, so we got very little advantage in that way It seems to me the proper place for improvement in treatment of such a case is during pregnancy or be fore pregnancy even, and the question is whether or not we could do anything to make the muscular structure better in quality. It seemed to me one of those cases in which there was, to a large extent, ab sence of the development of muscular structures in the vagina and perineum which ordinarily follows pregnancy We are all aware that pregnancy makes a great change in the vagina, vulva, uterus and ovaries, and it seemed to me that change had not taken place as it should There had not been the development of the muscular structures that would facilitate the delivery She was much in the condition, when I first saw her, of a virgin She was quite fleshy, and I think it is the experience of all of us that these are the patients whose perineums and other structures rupture, they do not dilate as well, perhaps from absence of muscular tissue, perhaps from the presence of fat As to the restoration of the permeum, I remember well that we discussed the question whether it would be wise to attempt the immediate operation of the restoration of the perineum and other ruptured parts after delivery, my own thought, and I think it was the unanimous belief of those present, was that the woman would be no worse off if the immediate operation was performed. and probably would run less risk of sepsis, though we all doubted the satisfactory union of the parts heartily agree with Dr Knov that, as a general rule, at is not wise for us to try to close the perineum and be thoughtless about the recto vaginal septum and the sphincter ani I should decidedly prefer, if I was to operate after another physician, to have the septum closed, and to have the opportunity of closing the sphincter and perineum I think the first operation should be the closure of the septum I think it will be found quite difficult to close the recto-vaginal septum, after the penneum and sphincter have been I fully believe that the danger of sepsis and other serious complications are lessened by the immediate operation, even though the parts are so lacerated that we can hardly expect a satisfactory union, and I would do the primary operation unless the patient was so exhausted by the previous delivery as to forbid it

DR CHAS WARRINGTON EARLE Such difficult breech cases as our attention has been called to this evening are not frequent in my practice Indeed, when I have seen pelvic presentations terminated before I could reach the case, safely to both mother and child, it has sometimes occurred to me that we exaggerated the dangers of these cases, and I have thought that the ordinary breech case gets along better without some doctors than with them

advisers, I believe the most judicious treatment was pursued, but I cannot see why episiotomy was not in attempts at dilatation before Dr Knox saw the performed. This is an operation which, in my judgment, should not be done frequently or unadvisedly, What advantages have we gained by the experience? but it occurs to me that here it would have been iustifiable

Dr Nelson compares the condition of the child in

the cavity of the pelvis to a mass of putty

With such a condition of things as this—the child dead and the lower parts rigid—why waste time trying to deliver with forceps or anything else, why not perforate at once, reduce the size, and then deliver?

In regard to lacerations, I am an advocate of closing them all I have never performed the immediate operation on the cervix, but I have witnessed it, and, if performed by a skilful operator, I think it justifi-Certainly, it is our duty to do the immediate operation if the perineum is ruptured I once saw Carl Braun's assistant do a craniotomy, in the course of which the cervix, a portion of the vagina, and the permeum were all torn After the usual antiseptic precautions to the cavity of the uterus, he introduced retractors, and successively closed the rent in the cervix, then in the vagina, and then the perineum. using in all about sixty sutures

I can easily see how in a small room, and with imperfect facilities, it would be impossible to do such an operation, yet the indications are, to thoroughly and antiseptically and immediately close these lacer-

Dr. D T Nelson I would like to say a few words in reference to some of the points raised which Dr Knox did not know As to the use of hot vaginal douches, the hot sitz-bath was not used, it was practically impossible, on account of the absence of conveniences A hot-water vaginal douche was directed and repeatedly used during the first stage of labor A word further with regard to the septic conditions I believe the woman had septic fever, but I believe that antiseptic precautions were fairly used, not as they might be in a hospital, or as they would be in our best private practice Vaginal douches of an antiseptic type were repeatedly used during the first stage of labor, and after delivery iodoform was constantly thrown into the vagina and over the vulva As to closure of the permeum by primary operation, and putting in too many stitches, I have had some experience in that direction, and fully believe that putting in a large number of stitches, and closing the parts perfectly, is a desirable thing to do, and I have repeatedly had it succeed most admir-I never had as bad a result as this one, and the reason is partly explained by the fact that we were working at a decided disadvantage not think it safe to put the patient on the table, where we could have had an opportunity to perform the operation satisfactorily More than half the stitches were put in by feeling, and not by the eye, and you can judge that they would not be well put in, and I think accurate coaption could not be secured there is no doubt but that the temptation to extract pectation was not that there would be complete quickly sometimes produces the complications we union, but that there would be less sepsis than other-The cases presented by Dr Knox wise, and I think the woman would have had far less were indeed complicated, and, with his most able chance of life if the operation had not been attempted

think any gentleman would have found it a difficult I used no intra-uterine douche, but used an antiseptic task to turn that babe and deliver it the parts before the instruments are put on, it seems to Dr Earle, the physicians were not trying to save easy, and in every other case of breech presentation the perineum, as the lacerations were not at all ex-I ever saw it was exceedingly easy to deliver the pa- pected tient, but this was so extremely difficult I was very the after coming head in breech presentations, and glad to have Dr Knox present to assist, as well by always expect to deliver the head without laceration his fingers as his valuable head If I should ever of the perineum meet another such case, I would be glad to have some gentleman of the Society present, and if he can deliver with his fingers, they will be stronger than any that were present on this occasion, I feel sure there are no fingers in this Society that could have delivered that breech

I would like to take exception THE PRESIDENT to one of the main conclusions of the paper, that it is not well to try to do too much in closing the peri-In those cases in which I have put in the most stitches, the union has been the most complete I recently put in twelve stitches and got complete shall or Hunyadi water I like them to have a stool union, in a laceration extending into, but not through, once in twenty-four hours without the use of an the sphincter ani sphincter ani, I obtained complete union by using I preserved a piece of the perineal fifteen stitches centre, which was hanging out like the end of a finger, by stitching it back with buried juniper catgut The reasons for failure are that the operation is poorly done, or imperfectly cared for afterwards the operator uses carbolized catgut, he will be sure be closed, if possible, and that every care should be to have occasional failures I use buried sutures of juniper catgut in the recto-vaginal septum, instead tion of rectal sutures, and then stitch the vaginal edges, exactly as they belong, with the same material lowest external stitch should be taken low down and through the ends of the torn sphincter, as recom-Either this or the next one mended by Emmet should pass deep enough into the perineal body and neum, unrepaired at the time, and left for a secondary near enough to the rectal mucous membrane to sustain the rectal pressure or traction as far as possible If these stitches be of silk-worm gut or silver, they will not give way, when properly and aseptically I think the mistake is sometimes made of cutting off too many irregularities, instead of fitting them together After the parts are united, we should, if the rectum has been lacerated, bind up the bowels for several days, and at first use plain vaginal douches, not carbolized ones, from three to five times in Beginning with the third and twenty four hours fourth day, carbolized douches should be employed If we take all this care, the same as for the secondary operation, we will, unless the parts have been too badly bruised, have the same success

In regard to the infection of DR J S KNOX these patients, Dr Cotton told me his patient had no septic fever or rise of temperature, and he thought convalescence was delayed on account of the lacera-Dr Michelet's patient had septic tion of the parts The stitches were removed on the eighth day, and union was found not to have taken place my own case, the woman made a prompt recovery I kept her in bed two weeks, because I had stitched pains but the dilation of the os, I think, is a signs of sepsis, she had a normal lying-in I intro- dred, but by dilating the perineum when it is rigid I

As to turning and delivering the child by its feet, I | duced my hand into the uterus and turned the child As to dilating vaginal douche, two or three times a day In reply I have repeatedly applied the forceps to It has been my experience that when a delivery of the after-coming head is attempted instrumentally, it comes suddenly and unexpectedly, you make strong traction, and the head flies upon the permeum and out in the world in a moment, and I think the lacerations of the perineum occurred in this sudden popping out, so to speak, of the after-coming Dr Byford speaks of keeping the bowels bound up after operations of the perineum with greatest success in keeping the bowels open, my inflexible rule is, after stitching the permeum, to administer to my patients, from the start, Friedrich-In another extending through the enema, I also like my patients to pass urine naturally, and then, as soon as the patient has unnated, to douche out the vagina and the wound it is not judicious to keep the bowels constipated In regard to Dr Nelson's criticism of my conclusion about too much being attempted, I spoke only of If this one case I believe that all lacerations should taken to perform an immediate and complete opera-When, however, the conditions are such that one cannot make a complete operation, I should much prefer to close the permeum, leaving the sphincter ani muscle unclosed, to even leave the septum not stitched, rather than the perineum, because I believe that the results of a laceration of the peri-There seems to be a operation, are quite serious readjustment of all the organs of the pelvis, the position of the bladder, rectum, and uterus are not the same as before, and the longer the secondary operation is delayed the greater are the displacements In this operation, I said, too much was attempted, because an appropriate and satisfactory operation could not be done under the circumstances

All the surroundings were such that all operations were done with a great deal of difficulty, in fact, Dr Nelson made half his stitches by touch, and not In my own case I was alone with no asby sight sistant but an ignorant Irish nurse and with a hysterical patient In the case operated upon by Dr Nelson, I think, if he had used less skill, he would Speaking from my have had a good perineum personal experience, I think that manual dilation of the os in labor is injurious, I believe most thoroughly in the septic inoculation of the uterus by attempts to dilate the os in labor, even before the When the os has become membranes are ruptured rigid, I occasionally introduce two fingers and try to retain what dilation has been accomplished by vicious practice in ninety-nine cases out of a hunhave saved a rupture, in breech as well as vertex however, lasting only fifteen weeks presentations If impaction of the fetus and laceration is accomplished largely by rigid perineums, I think it is proper for the physician to do this operation, and I know that it does bring on more regular

DR Larle asked if these women were subjected to a long hot sitz bath as a means of assisting dila-

tion?

DR KNON—They were not There are many things that have suggested themselves to me in connection with these cases I believe that if hot vaginal douches, hot sitz-baths, and hot applications over the abdomen had been used, they would have been more satisfactory

(To be concluded)

OBSTETRICAL SOCIETY OF PHILADELPHIA

Stated Meeting, Thursday, December 8, 1887 THE PRESIDENT, T M DRISDALE, M D, IN THE

(Continued from page 150)

DR BARTON C HURST reported a case of

CHOREA IN A PREGNANT WOMAN

It is not often that one has an opportunity to study chorea in the pregnant woman, and consequently each additional case that is reported must excite some interest But aside from its rarity, the extraordinary mortality that attends this disease of preglends additional interest to the study Barnes, Jac- freely 1883, 1884), while in more than half of all these twelve hours the baby was born varying periods before term entering into an extended consideration of the fre-disease quency, mortality, causes or treatment of chorea which may be briefly given as follows Lizzie H. prima gravida, et 19, was admitted to the hospital last August, being then in the sixth month of pregnancy There was, she said, no tendency to nervous disease in any member of her family, and she had herself been healthy until her minth year, when she was seized with violent choreic movements of the left arm and leg This attack lasted about a year, when it yielded to treatment, but the disease reappeared in her twelfth year She was then sent to England, her family's home, in the hope that the change of climate and the sea voyage might benefit her, this it did greatly, and she was free from chorea until her return to this country in her fourteenth year, when the disease again appeared, this attack,

Menstruation was established at the sixteenth year and, after recurring for a few periods, suddenly ceased and remained suppressed for five months, during the whole of which time the choreic movements, confined, as they had always been, to the left arm and leg, were so violent that the girl dared not go out of With the reappearance of menthe house alone struation the movements suddenly ceased, and the patient remained free from the disease until the occurrence of the first fruitful coition, which was followed almost immediately by the reappearance of the chorea No history of rheumatism could be eli-The case first came under the notice of my colleague, Dr Constantine Goodell, who placed the girl on increasing doses of iodide of iron and arsenic. much to her benefit When I saw her the movements recurred every few seconds and seemed confined to the flexor muscles of the forearm and fingers on the left side and to the flexor and adductor muscles of the left thigh and leg No abnormality of the heart could be detected except a slight rapidity The girl's appearance, which I had been told was very anæmic, was quite healthy Dr Goodell's treatment was continued with such marked and increasing good effect that towards the close of pregnancy the movements were little noticeable, whereas at first they had been so energetic as to interfere with locomotion In the seventh, eighth and ninth months, however, during the time corresponding to the menstrual period, the disease grew worse and was associated with painful uterine contractions and a slight hæmorrhage On November 11 active uterine contractions began, the pains recurring every nancy, as well as the constant disposition to abortion, two or three minutes, and the uterus contracting This continued for four days, without in coud, Wenzel, Bamberg, Speigelberg and Hervefound the slightest degree effecting the dilatation of the os, respectively, in 56, 31, 66, 64, 69 and 14 cases a the patient meanwhile obtaining no rest day or night mortality, respectively, of 30, 12, 27, 28, 28 and 21 and the chorea growing rapidly worse again Finally, per cent (Hervé Thesé "De la Choree pendant la on the fifth day, a bougie was introduced within the Grosses-se," Paris, Théses de l'ecole de Medicine, uterus In three hours dilatation had begun and in Fifteen days later cases the product of conception was expelled at the chorea had practically disappeared, and the Without, however, child, carefully watched, has manifested no sign of the

DR GOODELL remarked that Dr Barnes had colgravidarum, it is simply my intention to report to the lected fifty-six cases of chorea complicating preg-Society a case which has recently come under my nancy, and had found the mortality very heavy Dr observation in the Maternity Hospital, the history of Goodell had had one case of extreme severity at the Preston Retreat The movements were unilateral, during labor they were astounding in their violence Every muscular grimace and contortion possible was The patient was placed on thick carpets assumed on the floor to prevent injury This condition continued after labor until, completely worn out, she died He had another case which, however, was controllable The complication is a very fatal one, the mortality being about 30 per cent, if he remembered correctly Dr Barnes' statistics

DR Jos PRICE presented a large

MULTILOCULAR CYSTOMA THAT HAD COMPLICATED PREGNANCI AND LABOR

The patient was very large and twins were ex-

pected, the presence of the tumor not being diagnosticated until after the delivery of the child. The tumor had many adhesions to surrounding surfaces, including the bladder. The recovery was slow and poor after the labor, but quite satisfactory after the removal of the tumor.

(To be concluded)

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK !

(FROM OUR OWN CORPESPONDENT)

Prophylaxis of Diphtheria—Induction of Premature Labor in Amain osis and Amblyopia from Albuminuria of Pregnancy

At the second January meeting of the Academy of Medicine, Dr A Caille read a suggestive paper relating to the prophylaxis of diphtheria. He said that it was a fact that members of certain families, and especially children, had an attack of diphtheria every spring or autumn, and it had occurred to him that in all probability in such cases the microbes of the disease remained permanently in the system, continuing in a dormant condition until some hyperæmia of the faucial or nasal mucous membrane afforded an opportunity for the diphtheria to break out afresh. The disease was thus propagated by a process of autoinfection

In order to make a practical test of the correctness of this hypothesis he selected eight individuals, of different ages, all of whom had had diphtheria at least twice—some of them a considerable number of times—prior to October 1, 1885 All belonged to families whom he had long known and who had continued to occupy the same residences or apartments The first thing that he did was to cause all carious teeth to be filled or extracted He then directed the mouth to be rinsed, the throat to be gargled, and the nose to be cleansed three times a day with either a 3 per cent solution of potassium permanganate, a weak solution of liquor sodæ chlorinatæ, or a saturated solution of boric acid, the different solutions to be alternated with each other from time to time In very young children the antiseptic solutions are dropped into the nostrils with a pipette tice was maintained throughout the year with the exception of the summer months, during which none of the subjects had ever had diphtheria

As a result, apparently, of these precautions, not one of the individuals referred to has had an attack of diphtheria up to the present time, although some of them in the meanwhile have been exposed to the disease by other members of the family having it, While this result, Dr Caille said, did not, of course, afford absolute proof of the truth of the view advanced by him or of the prophylactic power of such a plan of procedure as that described, it did go to show that if the nasal and oral cavities are kept clean by antiseptic washes, diphtheria was less liable to occur than if no such precautions were taken

He then went on to say that hitherto in diphtheria said that if the nasal douche was avoided and warm far less attention had been paid to the matter of pre-fluids were used in the form of spray or by dropping

vention than to that of treatment One reason why was because of our ignorance in regard to the nature and significance of so called diphtheria, and since we could not in many instances distinguish between a contagious and a non-contagious sore-throat, the problem presented was a very unsatisfactory one to Still, as there was no specific treatment deal with for diphtheria, prophylaxis, in the present state of our knowledge, was of more value to the public at Prophylactic measures might large than treatment be divided into those relating to general sanitary conditions and those confined within the family was an unfortunate fact that in a large city the great majority of the inhabitants were unable to live in perfectly healthy dwellings, and hence the great importance of individual prophylaxis was obvious

Dr Caille concluded with some additional remarks on individual prophylaxis He stated that enlarged tonsils increased the liability to diphtheria, and recommended that these should always be removed with the knife or, better, the galvano-cautery Canous teeth should be extracted or filled, and he thought that provision should be made by which the poor could have dental cavities stopped with cement or amalgum free of charge or at a merely nominal price He advised that parents should inspect their children's throats every morning before sending them to school, and that all children should be taught how to gargle at an early age Children with sore throats should not be allowed to go to school Kissing children on the lips should be forbidden, and parents should be urged to keep the upper air-passages of their children in as healthy a condition as possible

In the discussion following the reading of the paper Dr George T Harrison said he had had such painful experience in the treatment of diphtheria that he was especially glad to hear something in regard to the prophylaxis of the disease, and he believed that the adoption of such precautionary measures as had now been suggested would be a step in the right direction. He was also glad, he said, to hear Dr Caille emphasize the danger connected with so-called follicular amygdalitis, to which Dr Jacobi had directed attention, as this was a matter in regard to which the profession as well as the laity, needed to be on their guard

Dr Fruitnight said it was a common experience to find that the first case of diphtheria in a family had advanced to a very dangerous degree before the medical attendant was called in, and, consequently, was very likely to prove fatal. It was also noticeable that afterwards in such families the parents themselves often instituted a system of prophylactic measures, making it a daily practice to examine the children's throats, etc.

throats, etc

Dr S Bamch said he should think that the daily washing out of the nose by the insufflation of cold liquids was a very dangerous practice, on account of the hability to excite serious ear trouble

Dr Caille explained that he did not recommend the employment of cold liquids, and Dr T R Pooley said that if the nasal douche was avoided and warm fluids were used in the form of spray or by dropping into the nostrils, he did not think there was much risk of crusing disease of the middle ear. The safest and best method of washing out the nose was by

means of the post-nasal syringe

Dr Seibert called attention, by way of supplement to Dr Caille's paper, to the importance of keeping children's stomachs in good condition, in order that the mouth and tongue might be clean In his experience a furred tongue was always a hotbed for the development of diphtheritic trouble, and he thought that the candy shops in the vicinity of the public schools were responsible for a good deal of the diphtheria now so prevalent

The President, Dr Jacobi, said that if he understood the reader of the paper rightly, he held that when a patient had once had diphtheria the germs of the disease are likely to remain secreted in the mucous membrane and lymphatic glands, and he quite agreed with Dr Caille in this opinion of the worst cases of diphtheria were those in which there was immense glandular swelling with cedema Such cases were very likely to prove fatal, but if the patients recovered the improvement dated from the time when these symptoms began to diminish was convinced, therefore, that diphtheritic germs were hable to remain in the lymphatics

If, as has been remarked, the mouth and nose were in a healthy condition, diphtheria was always less likely to occur, while, if an epidemic of the disease appeared in a neighborhood, the children living there who had a catarrh were especially hable to be attacked Diphtheria was like erysipelas in this respect When there was an epidemic of the latter disease in any locality the slightest scratch was likely to induce an attack of it, while those who were free from any

sore or abrasion of the surface escaped

There was another way in which diphtheria recurred, and in connection with this there was a point of great practical value in its prevention to which Dr Jacobi said he desired to call attention often been noticed that cases in which it was thought the attack was about over had a relapse, and in some instances there would be three or four attacks in quick succession The reason for this was simply because the room, the bed, the curtains and the carpets had become infected, and he had therefore made it a rule, whenever this was practicable, to change the room of the patient every two or three days, even if the room to which the removal was made was not as desirable as the one first occupied In some cases he had found it necessary to have the patient taken out of the house altogether

In answer to a question by Dr Holt, as to whether there were any sufficient data to indicate that children with enlarged tonsils were more subject to diphtheria than others, Dr Caille said that his own experience went to show that such children were more hable than others to be attacked, but he had found that as a rule the disease in these cases was of

a comparatively mild form

Dr Jacobi said that the reason why the tonsils were cause they stood so much in the way of the air-current,

Again, whenever the tonsils were enlarged on them there was a liability of mucus accumulating behind Enlarged tonsils were usually combined with a subacute or chronic nasal catarrh or pharyngitis, and the sooner, therefore, the tonsils were reduced, and the pharyngitis removed, the better would be the prospect of the child's escaping diphtheria

Dr Joseph W Winters said that when diphtheria appeared in a family, in addition to enforcing strict isolation and attending carefully to disinfection and the general sanitary condition of the premises, he inspected the throat of every member of the household daily, and if there were any children, ordered them to take full doses of tincture of chloride of iron (say 20 drops or more, three times a day), and tonic At the same time he directed that doses of quinine they should be kept in the open air as much as possible, should sleep in rooms free from pipes connecting with sewers, and be given simple diet Their digestive organs should be maintained in good condition, and to this end he usually prescribed small doses of mercury as a purgative two or three times When adopting these precautions he rarely a week saw cases of diphtheria occurring in the same family

On the same evening Dr T R Pooley read a paper on "The Induction of Premature Labor in Amaurosis and Amblyopia from Albuminuria of Pregnancy," in which the following conclusions were

arrived at

In all cases of pregnancy, not only should examinations of the urine be systematically made, but the eyes should be examined with the ophthalmoscope, since, in a large proportion of cases where eye-troubles exist, the patients make no complaint of disorders of vision Frequently such troubles can be detected with the ophthalmoscope long before any disease of the kidney is shown in the urine

2 In uræmic amaurosis without changes in the eye visible to the ophthalmoscope, even should the usual accompanying symptoms, such as dizziness, nausea and threatened convulsions, be absent, their supervention is soon to be anticipated, and the immediate induction of premature labor is indicated, without waiting until the life, as well as the sight of

the patient is in danger

3 In neuro retinitis the induction of premature labor is not only justifiable, but urgently demanded In some instances it is called for even in the earlier months of pregnancy

4 It is required in certain cases of eye-trouble

recurring in successive pregnancies

5 A woman having once suffered in this way during pregnancy, the relationship of cause and effect should be fully explained both to herself and her husband

ASSOCIATION ITEMS.

LIST OF OFFICERS -- When the list of Officers of so frequently the primary causes of diphtheria was be- the Association was published the address of Dr F C Hotz, Chairman of the Section on Ophthamology, so that deposits were extremely liable to take place Otology and Laryngology, was incorrectly given, owing to a somewhat recent change It should have been 103 State St, Chicago, Ill

The chairmen of several of the Sections have already reported lists of excellent papers promised for vantageously be increased in number, in order to the coming meeting

BOOK REVIEWS.

THE RECTUM AND ANUS Their Diseases and Treat-By Charles B Ball, M Ch, F R C S I, Surgeon to Sir Patrick Dun's Hospital, etc. With 54 Illustrations and four Colored Plates 8vo, pp viii 410 Philadelphia Lea Brothers & Co, Chicago A C McClurg & Co

This is a systematic and complete treatise of over 400 pages, well illustrated, and brought down to the present in point of all important improvements Considered as a whole the work is much more fully elaborated than either Allingham's, Curling's, or Kelsey's, although apparently not a large treatise, being printed after the custom of the Lea Brothers, in compact form, on thin paper Little attention is given to the injection treatment of hemorrhoids, which the author speaks very slightingly of same may be said of various other methods of the American "rectal specialists" Without directly intending it, probably, the author very neatly pricks the pretentions of those that claim originality for the discovery of rectal "pockets" by giving quite a complete summary of the pathology and treatment as practiced by many surgeons in ulcerations of these pouches were anatomically very well known, but that they have been split up and otherwise operated upon many times by surgeons for various reasons chapters of this work are commendable for the thoroughness and clearness of their discussion, and none more so than that upon fissure, which gives the best contribution we have as yet seen to the pathology and causation of this singular affection

THE THROAT AND ITS DISEASES, Including Associated Affections of the Nose and Ear, with 120 Illustrations in Color, and 200 Engravings Designed and Executed by the Author, Lenox Browne, F R C S E, etc Second edition, Rewritten and Enlarged 8vo, pp 614 adelphia Lea Brothers & Co, Chicago A C McClurg & Co

The author of the volume before us will be remembered by many American readers who attended the last International Congress for the able paper that he presented and discussions that he took part in, as well as for his genial, kindly manner first edition of this work has been well known, but has been completely rewritten by the author for this, the second edition In reading the book one cannot but be impressed with the clearness of the exnot but be impressed with the clearness of the explanations and the practical character of the advice The beauty, fulness and correctness of the illustrations enhance the value of the work very greatly The colored illustrations, which are beautifully ex-

ecuted, are much better than those of any similar text-books with which we are acquainted chapters on diseases of the nose and ear might admake the work still more complete doubtedly prove one of the most popular works upon the subject, both among practitioners and students

MISCELLANEOUS.

THE WILLIAM F JENKS MEMORIAL PRIZE—The First Triennial Prize, of Two Hundred and Fifty Dollars, under the Deed of Trust of Mrs William F Jenks, will be awarded to the author of the best essay on "The Diagnosis and Treat

ment of Extra-uterine Pregnancy"

The conditions annexed by the founder of this prize are, that the "prize or award must always be for some subject connected with Obstetries, or the Diseases of Women, or the Diseases of Children," and that "the Trustees under this deed for the time being, can in their discretion publish the successful essay, or any paper written upon any subject for which they may offer a re ward, provided the income in their hands may in their judgment be sufficient for that purpose, and the essay or paper be consid ered by them worthy of publication If published, the distribution of said essay shall be entirely under the control of said Trustees In case they do not publish the said essay or paper, it shall be the property of the College of Physicians of Phila delphia"

The prize is open for competition to the whole world, but the

essay must be the production of a single person

The essay, which must be written in the English language, or if in foreign language, accompanied by an English translation, should be sent to the College of Physicians of Philadelphia, Pennsylvania, U S A, addressed to Ellwood Wilson, M D, Chairman of the William F Jenks Prize Committee, before January 1, 1889

Each essay must be distinguished by a motto, and accompa Not only does it appear that these nied by a sealed envelope bearing the same motto and contain ing the name and address of the writer. No envelope will be opened except that which accompanies the successful essay

The Committee will return the unsuccessful essays if reclaimed by their respective writers, or their agents, within one year The Committee reserves the right to make no award if no

essay submitted is considered worthy of the prize

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM JANUARY 28, 1888, TO FEBRUARY 3 1888

PROMOTIONS Lt Col Charles Page, Surgeon, to be Asst Surgeon General with rank of Colonel, November 17, 1887

Major James C McKee, Surgeon, to be Surgeon with rank of

Lieut Col, November 17, 1887
Capt Alfred C Girard, Asst Surgeon, to be Surgeon with rank of Major, November 17, 1887
First Lieut W W R Fisher, Asst Surgeon, granted leave of

absence for one month, on surgeon's certificate of disability

S O 4, Dept Cal, January 20, 1888

First Lacut H I Raymond, Asst Surgeon, ordered to Ft

Bidwell, Cal

First Lieut W W Fisher, Asst Surgeon, ordered to Presidio of San Francisco, Cal S O 25, A G O, January 31,

OFFICIAL LIST OF, CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U S MARINE HOS PITAL SERVICE FOR THE WEEK ENDING FEBRUARY

February 2, 1888

P A Surgeon F M Urquhart, granted leave of absence for twenty days, on account of sickness February 3, 1888 Asst Surgeon L L Williams, ordered to examination for pro-motion February 2, 1888

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

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Vol X

CHICAGO, FEBRUARY 18, 1888

No 7

ORIGINAL ARTICLES.

A CASE OF EPILEPSY CURED (APPARENTLY) BY THE CORRECTION OF AN ERROR OF REFRACTION

Read before the Chicago Medical Society, January 16, 1888 BY J ELLIOTT COLBURN, M.D.

PROFESSOR OF OPHTHALMOLOGY AND OTOLOGY IN CHICAGO FOLICLINIC OPHTHALMIC SURGEON TO COOK COUNTY HOSPITAL ASSISTANT SURGEON ILLINOIS STATE CHARITABLE EYE AND EAR INFIRMARY ETC

attention, first came under my observation in June,

160 lbs, well proportioned, features regular, except that eyes are deeply set and appear small, occupation student

He consulted me for mental confusion and inability to read or study without flushing of face and pulsating of superficial arteries, with sensation of poundof vertigo which would disappear when eyes were At times, following prolonged effort, the confusion of ideas was painful and was accompanied by visions which he recognized as such, at least a part of the time He had at this time some slight field soon increased his trouble disturbance of digestion and constipation, due apparin early boyhood, but not since, had had frequent me for advice seminal emissions, more marked during the past two found him at my office in a truly pitiable plight case remained about the same About this time, for lusions some conduct not in accord with the rules of the institution, he was brought before the Faculty President, finding that he had consulted me, came to find out whether the gentleman was really ill, or whether there was good reason for his strange ac- and advice tions and low standing in the school From him I notes of his case learned that the patient was constantly manifesting strange mental phenomena, by them attributed to times he was extremely dull and morose, and again almost brilliant and exemplary

I then inquired more carefully into the case from

sermons, while it was with difficulty that he was able to grasp the matter of a printed page. He was advised to leave school for some occupation less sedentary and requiring less mental work. This he did At the end of the summer vacation he returned apparently perfectly well

About this time I left that field of work and lost track of my patient From a student in the institution at that time I learned that for some weeks following his reentrance he did good school work, but resumed his old habits and, after a stormy time with the Faculty, left the school After some difficulty, The following case, to which I wish to call your he was admitted to the ministry, for which he had About two years subsequent to my been preparing first acquaintance with him, during a sermon, he was Mr T, æt 24 years, 5 ft 9 in in height, weight attacked with a marked epileptic seizure, and from that time on he was subject to attacks more or less severe, occurring in the frequency of from one a day to one in two or three weeks

Restraint was considered advisable, and he was confined in an asylum at intervals for about two years During one of his more prolonged intervals of iming in back of head and neck, with marked sensations munity from fits he escaped from the asylum and went to a neighboring State, where he endeavored to resume his work, but the return of the malady again unfitted him for ministerial labor and he resorted to The study necessary for success in this canvassing

About this time he recalled my opinion and progently to sedentary life He admitted masturbation nosis of his case, and finding my address called upon He came to me in August, 1886 years and always following hard study I gave him had been a number of hours on the cars and had such treatment as his case seemed to demand, with had numerous seizures more or less severe, he was the result of benefiting his digestion, otherwise the hungry, bewildered and incoherent, with marked de-I hastened to put him in better condition, and on the following day elicited some of the facts given above

His trouble continued in spite of sedatives, and I referred him to Dr C D Wescott for examination Dr Wescott gives me the following

"Mr T first called upon me October 23, 1886 I pronounced him an epileptic as he entered my office, viciousness and low mental and moral character At from his appearance alone, the congested countenance and excessively mobile pupil He described very well seizures of petit mal occurring every two or three weeks with or without unconsciousness, frehimself and others, and diagnosed a condition bor-dering on petit mal, with impulses I also found that lucinations His judgment was evidently impaired, he was unusually bright as a critic of orations and and he presented every appearance of one suffering

TABLE OF SEVENTEEN CASES

TABLE OF SEVENTEEN CASES							
Observer	Age of Patient	Tumor Recognized	Symptoms	Fluctuation	Diagnosis before the Operation		
r-Schetellig Arch f Gyn, I, 259	41 years Multipara	e years	Tumor elastic in general form spherical in places irregular and hard above the symphisis a tympanitic zone. Uter us movable and normally located	l luctuation indu bitable	Ovarian cyst Diagnos incated by another sur		
2-Schmid Priger med Wochenschr, 1878, No 35, 260	35 years One child	r¥ years after delivery	After previous peritonitic symptoms rapid development in the right pelvic cristy of a movable tumor. Decendens uter. Prolapse of the ant vaginal wall		Solid tumor of the right broad ligamert By in ternal examination both ovaries were recognized		
3 -Miculicz Wien med Wochenschr, 1879, No 21, 261	•		Periodical pain in the pelvis For two or three years ascites present. Umbilical hernia since one year. Tumor freely movable, somewhat uneven, as large as a man's head.	_	Solid tumor of the broad ligament		
4 - Gayet Lyon Méd 1011, 1874 No 9, p 273		7 3 6 15 6	All the appearance of a simple ovarian	Present Verz pronounced	Ovarian cyst with short pedicle		
5-Singer Arch f Gyn, AVI, 284	19 years One child	zo months	Failure of the menses to appear for 7 mouths Patient considered herself pregnant P-clapse of the uterus and vagina	pronounced	Left sided ovarian cyst		
6-Bardenheuer- Drainirung d Per itoneal-hochle, Stuttgart, 1881, S 113-118 (in Hegar)	1		A large tumor which was located deep in the pelvis and extended somewhat above it	•			
7 —Péan (In Hegar)					•••		
8 —Buschmann (oper tor, Billroth) Wie ner Wochenschrift 1880, No 28	4 para	-	Increase in the circumference of the ab domen for three years. Dull elastic consistency. The percussion dulness extended to that of the liver and spleen	•	•		
9 —Rydygier Deutsche Zeitschrift für Chi rurgie, XV, p 279	Multipara		-	Pseudo fluctua tions	Solid pediculated tumor of the uterus		
to — Chimiaux Arch de Tocol et des mals des femmes, Juillet 1880, p 439	Multipara		The tumor grew steadily but without pain. It appeared to arise from the uterus. It moved with its movements Remarkable developments in the course of a half year		Solid pediculated tumor of the uterus		
11 — Schroder Sitzung der Gesellschaft i Geburtsh u Gy naek, Berlin, June 8 1880 Berlin klin Wochensch, 1881	,						
r2 —Freund Gynæcol ogische Klinik, '85, p 289-293	32 years Multipara	land aread comprehation		None I	Sibroid of the left broad agament		

TABLE OE SEVENTEEN CASES

Condition Found at the Operation			1 7	Parelle	Remarks	
Pedicle.	Uterus	Ovary	Operation	Anatomical Diagnosis	Result	Kemarks
Long some what thick attached to right broad ligament,		Normal		des envernosum ligamenti lati dextri	from chronic peri tonitis spreading out	Uterus free without any at tachment to the tumor Left overy normal Right overy drawn up on the anterior, under surface of the tumor
	tile	Right ovary in ne crosis wholly sepa rated from the tu mor On the left ovary a pea sized pedunculated fibro ma			Pedicle dropped Course without fever Healing by first	
Wanting	Normal	Normal		ligament Tumor strongly ædematous Wgt 10 lbs	Pedicle dropped Recovery retarded by secondary intra abdominal hæmor orrhage and abdom inal abscess	On the ovarian side of the lumor arising from the right parovarium, a small der moid cyst
Short and small.	Normal	The left ovary be hind the anterior tu mor ædematous be set with follicular cysts free from the ligamentum latum Right ovary appar ently normal		· *	Attempted removal Suturing of the re sidue of the cyst in the abdominal wall Gangrene of the pel vic tissues Death on the 14th day	
				Fibromyoma hydropicum ligamenti lati sinistri Dou ble tumor The anterior small intraligamentous the large one extra ligamentous intra peritoneal and pedun culated Weight 16 lbs		
			Laceration of the ante- rior wall of the rectum Intestinal suture In- jury of a large parame trian blood vessel in ar ranging the drainage	,	Death four hours after the operation from hæmorrhage	
Short			Pedicle treated as an ovarian pedicle	Meduliary sarcoma of the broad ligament	Death on the second day of peritonitis	
None pres	Free with out attach ment to th tumor	. }	in separation from the peritoneum. The tumor had grown from the back	Retroperitoneal fibro myo ma, by which the kidney which lay in the pelvis was deformed The sessile tu mor lay between the leaves of the ligamentum latum Weight 36 pounds	itis on the fifth day	The tumor was very vascu lar and gave the impression of a firm, jelly like tumor It was covered with a very thin peritoneum
None	On the uter us, two sub peritonea tumors abo the size of small apple	l t f	out of its place without	[
Present	Free	Free	The tumor was attached to a pedicle which arose from the left broad liga ment		which certainly had arisen from an abscess in the neigh borhood of the ped	The tumor presented a trem bling, soft mass made up of wide meshed tissue with fist sized cavities within No autopsy or microscopical examination of the tumor was made
				Fibro myomatous tumor		Discovery of tumor which was from the left broad liga ment during the removal of an eight sided ovarian cyst oma
None	Movable	Both present sound	Enucleation		tilicie was a second i	The ureter lay bare in enu cleating the sessile tumor

TABLE OF SEVENTEEN CASES—CONTINUED

TRADE OF SEVENTEDAY CASES—CONTINUED					
Observer	Age of Patient	Tumor Recognized	Symptoms	Fluctuation	Diagnosis Refore the Operation
13 —Freund Loe cit	30 years Nullipara				Double fist sized myoma of the uterus and a tu mor in the left broad ligament.
14—Freund Loc cit 15—Bantock The Brit 18 Gyn Jour, A., August, 1887	fer 10 years	14 days after the removal of a sub peritoneal myoma as large as a man's fist, a plum sized tumor of the left broad ligament was detected. Tumor recognized nine months before operation, soon after the birth of the last child			Solid tumor of the left broad ligament which became as large as a child's fist, still separat ed from the uterus by a distinct furrow Believed to be ovarian
16 — Fenger Unpub lished	29 years Multipara	About one year	Crused little inconvenience, but aroused the suspicion of pregnancy	None	Solid tumor of the left broad ligament. Sepa rated from the ovary and uterus by a recognizable space, filling the pelvis and extending half way to the umbilicus, some what movable Uterus and ovary separately movable
17—Holmes (Opera tor, Streeter) In this article	1	Tumorrecognized eleven months before operat'n, when it wis movable from the uterus		Pseudo fluctur- tions	Tumor of the right ovary

The sutures were removed from the abdominal wound on the fourth day, and the second and last dressing applied to the abdomen. There was not a particle of suppuration at any time, nor any pain in the line of the abdominal cut, or in the region of the operation. There was just a show of blood on the vaginal tampon where it lay against the os uteri. The patient was somewhat troubled with borborygmus during the first week, and at the end of a month had an attack of gastro-enteritis. She has now regained her former health and strength, and has menstruated regularly and normally

The tumor has all the appearance of a uterine fibroid It is almost perfectly spherical and smooth The cut sur-It is about the size of a man's fist face is smooth and white, with a few cavernous sinuses, filled originally with a clear serous fluid A piece of the fibrous capsule is still attached to one The drawings which I present side of the tumor were made from stained sections, with a one-tenth inch immersion objective, and an inch eye-piece The nuclei resemble very much those of unstriped muscle There is very little, if any, pure fibrous tissue to be found in the body of the tumor Near the blood-vessels, the nuclei are ovoid or spherical, and These are, no doubt, the round cells very large noticed by Kleinwachter (49) in small uterine fi-They seem to be well nourished cells, undergoing rapid mitosis, or indirect cell division These large round cells are easily distinguished from transverse sections of the long nuclei by their size and arrangement

This tumor, then, is leiomyoma, that is, a myoma that originated from a matrix of smooth muscle tissue

Such a matrix is found in the uterus, in the uterine ligaments, in the base of the ovary, in the walls of the bladder, and in the abdominal wall

(a) A consideration of the history of the case shows conclusively that this tumor did not originate as a sub-peritoneal fibroid of the uterus. When first observed, it was quite a distance from the uterus, and freely movable from it in the pelvis. The pelvis was thoroughly examined under an anæsthetic four months previous to the appearance of the tumor, and nothing found

It does not seem possible that a fibroid of the uterus could be so completely displaced either by puerperal contraction, or by the traumatism it suffered at the operation in February

There remain to be considered the possibilities of an ovarian or a ligamental origin for our tumor

(b) We have four methods of demonstrating the presence of smooth muscle-fibres in the broad ligament, the embryological, the anatomical, the physiological, and the pathological The uterine ligaments contain plain muscle-fibres, which are prolongations of the superficial embryonal layer of the uterus These fibres extend through the ring into the mons veneris, and out on the abdominal wall to the linea alba, and up over the posterior wall of the bladder

Anatomically, these smooth muscular fibres have been found and described by Rouget (14), Klebs (16), Henle (17), and Luschka (19) They are also mentioned in Quain's Anatomy

TABLE OF SEVENTEEN CASES-CONTINUED

Condition Found at the Operation		Operation	Anatomical Diagnosis	Result	Remarks	
Pedicle	Uterus	Ovary				
None	Free	both present	After enucleation of the myoma of the uterus a tumor of the ligament the size of a 5 mo graviduterus was removed. The peritoneal covering of the tumor was cut so that a continuous suture restored the relations of the parts to those of a normal ligament.			The left ureter lay under the side of the tumor
					No operation	•
None	Free	Both present	tion Removal of dis-	Fibroid of right broad liga ment The tumor arose in outer portion of the ligament beyond the ovary which lay on its inner aspect		Peritoneum freely movable over the surface of the tu mor
None	Free	Both pres't healthy	wound Drainage by means of a Miculicz's drain introduced into bottom of the unclosed	Fibroid of broad ligament Weight 4 lbs The cut sur face showed multiple nut sized and larger fibroids melted down into one large and almost perfectly spheri cal tumor	on the third day	The omentum adherent to the tumor over a considera ble surface contained enor mously enlarged blood ves sels (finger sized), furnishing the principal blood supply of the tumors
None	Free	Not found	Transverse incision thro the broad ligament and enucleation of the ses sile immovable tumor	Leiomyoma of the right broad ligament weight, re ounces	Recovery without complication In perfect condition Nov 28 1887	ıl .

They have also been assigned an important rôle in initiating labor (18) In examining the wall of cysts of the broad ligament, Spiegelberg (20) and Lawson Tait (21) have seen layers of unstriped muscular fibres three or four millimetres long investigators have sometimes found and sometimes missed these bundles in the walls of parovarian cysts There is, then, no doubt that a suitable matrix for the development of leiomyomas is found in the broad

Graetzer (26), investigating the origin of the tumors of the abdominal wall, has opened up all the possibilities of the origin of fibroid neoplasms in every part of the body According to the theory of Cohnheim, there must be a matrix derived from the mesoblastic layer of the embryo Thus the fibroids of the œsophagus, stomach, intestinal canal and prostate from the plain muscular fibres of these organs, and those of the abdominal wall from fibres going out from the uterus through the ligaments in the direction of their embryonal attachment

Twelve well diagnosticated connective-tissue tumors of the round ligament have been collected by Sanger (2) These represent almost every possible theoretical position in which such a neoplasm could be found, namely in the round ligament, in the pelvis, in the canal and outside the canal, in the walls pedicle of the abdomen, or in the labia majora

broad ligament The tumor was as large as a bean, and so smooth and spherical like ours

far removed from the uterus and from the ovary that no relation of origin to them could be considered Such tumors have been thought by many investigators to arise from a displaced fragment of the ovary, or an accessory ovary

If any doubt remained of the possibility of the primary origin of fibroid, or better, of desmoid tumors in the broad ligament, the careful consideration of Cohnheim's post-mortem examination, reported by Freund (28), would remove it He found on the posterior wall of the uterus and of the bladder, and between the leaves of the broad ligament, even to the outer end of it, numerous isolated myomata of all sizes, from a cherry to an apple

Sanger (1 and 2) has collected eleven cases of primary desmoid tumors of the broad ligament which the skin arise from musculi erectores pili, those of reached a considerable size. There are several observations by other authors which swell the number of observed cases to nineteen or twenty

> Then it is both possible and probable that our tumor arose originally from the broad ligament in which it was found It is still necessary to show that it did not arise from the ovary

> (c) There are at least three reasons for thinking that it did not arise from the ovary, namely the form of the tumor, the microscopical elements of the tumor, and its manner of attachment, or want of

The fibroids of the ovary are simply hypertrophies Small fibroids have been occasionally found in the of the connective tissue of the ovary, and therefore Virchow (9) has made such an ob-their contour is irregular and nodulated, and not

Fibroids of the ovary are composed almost entirely of fibrous tissues, and unstriped muscle-fibre is rarely and sparingly found, while our tumor is composed almost, if not entirely, of plain muscle-fibres

Fibroids of the ovary have been shown by Leopold (28) to be connected with the ligament by a long, simple pedicle, which does not include the tube One tumor lay deep and sessile in the pelvis

It is not significant that a diagnosis of an ovarian tumor was made before the operation, as this has been repeatedly done by other operators in the case of solid tumors and cysts of the ligaments

Neither does it matter that the right ovary was not recognized, as it is frequently melted down on the surface of large cysts, and becomes almost unrecognizable through pressure atrophy

I conclude after all these considerations that this is a true primary leiomyoma of the broad ligament

A table is appended to this article giving a synopsis of the eleven cases collected by Sanger (1 and 2) to which I have added six other cases Three of these are from Freund (28), one is from Bantock, and one is from an unpublished case of Fenger, and the other is the case I have just described

In only six cases was the true position of the tumor recognized before the operation, namely, Schmid's, Miculicz's, Freund's three cases, and Fenger's

Cystic, cavernous, and sarcomatous myomas, as well as simple myomas, are represented

The average age of the patients is about 32 years,

the extreme being 19 and 42

It is probable that these tumors are not so rare as this limited number would indicate, but that in the advanced stage of growth in which they come to operation, the ovary becomes drawn out and lost on the wall of the tumor, which then seems to have arisen from the lost ovary An earlier examination would perhaps have revealed their true position

LITERATURE ON TUMORS OF THE BROAD LIGAMENT

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THE TREATMENT OF NERVOUS AND MENTAL DIS-EASE BY SYSTEMATIZED ACTIVE EXERCISE

BY CHARLES K MILLS, MD,

OF PHILADELPHIA, PA

[(Concluded from page 167)

Systematized active exercises serve a good purpose in some of the various disorders designated as asthma One case of this kind, a young lady, despondent, weak, dyspeptic, hysterical, with feeble heart, and subject to attacks of asthmatic breathing, improved with great strides in a few weeks under general active exercises She began treatment with half pound dumb-bells, and at first could only stand five minutes' The exercises were increased, until half an hour was reached, and dumb bells weighing four pounds were used

In the treatment of chorea, or rather choreas, sys tematized active exercises are valuable Special forms of gymnastics have been employed for this affection to some extent, particularly in France and Napoleon Laisné, a French professor of Germany gymnastics, and evidently an earnest and enthusiastic worker in his chosen field, under the directions of Dr Blache and other physicians of Paris, has used gymnastics largely both for chorea and other con-In 1865 he published a book in vulsive disorders Both Schreiber and which his methods are set forth Dujardin-Beaumetz refer to his labors and successes His method in mild cases, as described by Schreiber, is to place the child before him, steadying it between his knees, and then take its hands in his, and perform rhythmic movements with each arm, keeping time by counting, or, better still, singing, out loudly-"one," "two," "three," etc The child, at the same time, is also urged to try and keep time with the movements, and not to make them irregularly

"Care must be taken in the beginning to prevent, as much as possible, the coincidence of involuntary When the arms movements with the rhythmic ones have been exercised, similar movements are under-From time to time, a pause for taken with the legs rest is made, during which the limb must be held firmly enough to prevent the occurrence of involun-

¹ Applications de la Gymnastique a la guerison de quelques Mala dies Paris, 1865

tary motions upon an inclined ladder, the feet being held by an result of eccentric functioning by nerve centres, or assistant, then grasping a rung above its head, it of irregularities in the conveyance of impulses through holds on in that position as long as it is able is to be repeated several times, and to be followed impulses to be conveyed in a normal manner to by a short rest legs are rubbed and gently kneaded "

Lengthy details of treatment will be found in for months

Schreiber's Manual

Two cases of minor chorea improved under medicinal treatment up to a certain point, and then would advance no further General exercises with light dumb bells were ordered, and in both cases the pro-

gress to complete recovery was rapid

In the treatment of habit chorea, these exercises This, whether in children or have a peculiar value adults, is an annoying and distressing disorder, and By habit chorea is meant commonly intractable an abnormal movement or series of movements, frequent intervals Mitchell2 records two interesting cases, and recommends for treatment careful and good diet, light gymnastics, no school, gentle aperients, and full doses of arsenic, particularly the hy podermic injection of arsenic in the form of Fowler's I refer to this treatment, as he includes solution light gymnastics among the measures recommended

number of cases of habit chorea years ago I reported the case of a girl, fifteen years old, who had peculiar movements of her right ear, after a time associated with twitchings of her nostrils and upper lip, and the limbs of the right side Another patient, under excitement, made a move ment of extension and semi-rotation with one arm, sometimes accompanying it with twitching of the facial muscles Facial grimaces constitute, as is well known, one of the most common forms of habit I have now under my charge a case of habit chorea which is being treated successfully by systematized active exercises The patient, a young lady eighteen years old, began to be troubled with spasmodic movements nine years ago These lasted at first from one to two years, then disappeared for a year to return again, and have since gone and come For the last two years, however, she has been troubled almost continuously with the movements, and has tried various modes of treatment, chiefly medicinal, but without any decided benefit The chorea consists of a sudden jerking of the head downward and to one side, which may be performed once or several times in succession Either with or without this twitch or jerk, she frequently also has a snapping movement of both eyes The chorea was not started by imitation, but it is much influenced by any cause of nervous excitement, as fright

Systematized gymnastics, either general or local, constitute a rational treatment for cases of this kind, because by means of such exercises not only is the general nutrition of the patient improved, but the nerve centres are given tone and strength, and good habits of movement are made to substitute bad

The child is then laid on its back Such eccentric and abnormal movements are the This nerve channels By again and again causing normal Afterward, the shoulders, back, and muscles, in time the choreic habit will be overcome Such treatment, however, needs to be persisted in

The advantage of any treatment which involves specific direction and the adroit calling out of the volition of a patient must be evident to everyone who has had experience with hysteria in its manifold In hysterical paralysis much can be done by laying out a careful plan of treatment by exercises, and gradually leading up to their full performance In referring later to ataxias and palsies, functional and organic, methods to this end will be considered For the improvement of nutrition, and of what may be termed the general nervous and mental tone of voluntary or partially involuntary, and repeated at hysterical patients, systematized active exercises fill an important place Properly used and controlled, they may also prove most beneficial for cases of general nervousness, and also for neurasthema Whatever view may be taken of the much mooted question of neurasthenia, without doubt both respiratory and muscular power, either primary or secondary, are often deficient, and the nerve centres Among my nervous patients I have had a goodly themselves can be strengthened and improved by ex-Nearly thirteen ercising these two powers Care should be taken not to force individuals suffering in this way to excessive effort at first

> Great are the advantages which result from the solourn by sea or mountain, from the cure of camp and ship, but the improvement of health obtained by such holiday treatment is often soon lost in whole or in part by the individual going back too completely to old habits of living and working A resort to systematized active exercises for a few minutes daily will do much toward keeping the good that has been obtained

> "A man," says Maclaren, "cannot, in a week or two, eat sufficient food to supply the demands of the appetite for a whole year, neither can he take sufficient exercise to keep his body in health throughout the four seasons in a summer's ramble These mountain excursions or sea side sojourns must be in addition to, and involving no curtailment of, the daily walk to and from business, the daily ride to and from somewhere, or the daily employment with or at something, a something which will in its doing, quicken the pulse and augment the breathing and, if possible, bring the perspiration to the forehead "

> For those forms of nervous palpitation which are dependent upon a neurasthenic condition associated or not with digestive disorder, systematized active exercises are of great value. The exercise should at first be light, but should be carefully and somewhat rapidly increased Besides the indoor exercises, after the method of Blaikie, or with the pulley-weight apparatus, the patient should use deep breathing while walking out of doors A case reported by Dr Theodore Clemens, of Frankfort-on-the-Main, is interesting in this connection The patient was a man forty-

² Lecture on Diseases of the Nervous System Especially in Women by S Weir Mitchell M D Philadelphia Medical Times March 28 1875

Medical and Surgical Reporter, October 22 1887

six years old, who applied for treatment on account ments, with intervals between of a minute or more of distress and irregularity of the heart. Clemens decided to make him do the thing he most dreaded, weak, a finger beneath the ankle aids it, but no atviz, climb up several flights of stairs was most happy The patient's pulse, which had in- orders are to be obeyed more quickly. It is easy termitted at every tenth or twelfth beat, wavered to sketch out for one's self what such a system only twice, and but slightly, in a hundred beats after should be in its details. After it has gone far he had mounted three flights of stairs twice. He enough the patient is seated in bed with some supnow decided to make similar efforts regularly every port to her spine, and is trained to move the head day, and in three months he was a well man

both the neurologist and orthopædist-cases of curva- girl to creep, which is an easy and natural mode of ture, deformity, atrophy, etc -systematized active training for the walk. The patient has pads tied exercises have long been used by the best authori- over her knees, and, lying flat on her face on the branch of the subject in the present paper more particular object is to call attention to the sheet-belt by the nurse. When she is able to do value of systematized respiratory exercises in setting this, and gather her legs and arms so as to make up or straightening the feeble and stooped, who also herself a quadruped, she is taught to balance herfrequently are sufferers, in some degree from nerv- self, every effort being assisted, when needing help, ous or mental weakness If, at the same time, ap- by the nurse standing above her The progress to propriate general hygiene is used, the improvement creeping is easy, then comes the lesson of kneeling in such cases is sometimes simply wonderful I and pushing a chair, and last, that of standing in a have notes of a number of cases treated by Mr corner or by a chair Dodge and myself to bear witness to the truth of this statement, but time will not permit me to refer times when dependent upon organic disease of the to these in detail been using systematized active exercises, wrote to balancing or acrobatic gymnastics is of some value Mr Dodge as follows

son has wonderfully improved in health and appear- bration and Excitation," discusses a method for the ance during the past month, while under your care regeneration of the nerve elements by exercise on Even in two weeks we saw a marked change in him the basis of the law of development through funcfor the better-his stooping shoulders (made so by tion, holding that the ataxic subject is reduced by outgrowth of strength) straightening marvellously "

For gout and lithæmia, to promote excretion and to stand or walk nutrition, for anæmia and spanæmia, to assist as- to stand with his eyes closed in his bath, after pour similation and further oxidation, for headache, ing a small can of water down his spine, or applying sleeplessness, and nervous irritability, to soothe and a mustard poultice over the full length of the spine calm the nervous system, to aid elimination in cases for ten minutes or a quarter of an hour, to perse of lead, arsenic, mercurial, and other metallic or vere in an attempt to stand for, at first, a quarter of toxic diseases, for diabetes, to favor the skin and in- an hour, and, as his state improves, for half an hour crease combustion, systematized active exercises every morning. He is to be furnished with a chair have a value which cannot be too highly extolled, or rail at hand, to which he can cling in case of and one which I have had an opportunity to dem- need, but is instructed to avoid using it except when onstrate in my own practice

theritic or exanthematous diseases, and in the hys- tained terical varieties, systematized active movements, the patient at first lying down or sitting, and subse- some curable forms of myelitis, advantage should be quently standing, have proved of great service in taken of the first signs of motor improvement to

my hands In Dr Mitchell's lectures, some valuable advice tricity and massage is continued and interesting details are given with reference to point upon which I desire to insist is, that the atthe best method of slowly training by what are tempt to join the will of the patient to the long unreally systematized active movements, although not used muscles shall not be deferred a moment longer so called by him cautiously brought convinced, after extreme, that ! utting of to the previou e nursc the patient whi ove th time very slowly r an

"An order is given to lift the leg, if it be too The effect tempt must be let to fail utterly, as she gets on the freely The next step used with me to be a lesson For the group of diseases which fall to the lot of in walking, but of late I find it better to teach the I can only refer in this general way to this floor, without skirts, has around her a folded sheet My At an order she tries to rise, helped by a lift of the

In the treatment of ataxic affections, even some-A gentleman, whose son had cerebro-spinal axis, the use of what may be called Dr Mortimer Granville, in the Practitioner for 1881, "I have pleasure in assuring you that I think my and subsequently in his monograph on "Nerve Vidissolution to the position of a child just learning His plan is to direct the patient The exercise must be continin danger of falling In curable ataxias, as in those which follow diph- ued diligently for weeks before success can be ob-

> In patients suffering from multiple neuritis, or begin with active exercises, while the use of elec-The particular The weak and mapt muscles are than is necessary Simple attention to this truth, The patient is first which ought to be self evident, would, I think, in de an efforth h seems many cases have saved patients from weeks or

> > In the treatment of various forms of paralysis t systematized active movements may be emed with advantage has long been known Even s from organic brain disease, a clear

onths of nselessness

method of using gymnastic treatment will be found most wanting, should be cautiously encouraged bosis, tumor, abscess, or depressed fracture, less frequently of meningitis or cerebritis, of atrophy or arrested development, and still more rarely of ure Sometimes in cases of sudden lesion, as hem orrhage or embolism, the assault upon the nervous system is so violent, or the destruction is so great that death results quickly, or the pa-tient is reduced to a state of utter helplessness, for which, practically, nothing can be done many cases, however, soon after the attack, or even the same truths apply at a later period, the amount of palsy is dispropor-Many cases of monoplegia and hemi plegia illustrates this truth Little by little some of these patients regain muscular power to such an extent as almost to induce the belief that they will get entirely well, indeed, in some cases of hemorrhage, tumor, traumatism, syphilitic meningitis, and uremia, complete or almost complete recovery does occur treatment of such patients

and after the shock of the attack, and the acute in- venience electricity, and possibly massage, allowing the pa-|cord tient to use the affected limb as he sees fit More system, may play a useful part Every effort conthe paralyzed limb with the volitional centres Such patients often need to be incited to effort

Two methods of systematized active exercises may be tried for these hemiplegias and monoplegias One is the method partly of duplicated active, and partly of single active movements, used and described by some of the writers on Swedish move ments, as, for instance, by the Taylors The patient is placed in a recumbent or half reclining posture, so that he may be able to direct all the cerebral energy at his command toward the paralyzed member, and is then urged to make some simple If he succeeds to ever so slight a demovement gree, he should simply be encouraged to repeat the movement, but he should be carefully guarded against undue or too long prolonged effort simple movements are added from time to time he can do absolutely nothing, the operator should perform on the patient the desired movement, while | failure the latter fixes his attention upon the performance and tries to assist thoroughly regulated manner With light dumb bells and with the pulley-weight apparatus, all possi- A, at the same time breathing out violently

to serve an excellent purpose Such paralysis is From a cautious pursuance of such methods I have usually the result of hemorrhage, embolism, throm-seen a surprising result in a number of cases supposed to have reached the limit of improvement

Such treatment does good, not only because the original lesion may have been partially removed, but also because, by such efforts portions of the brain adjoining the centres destroyed may be made to take on new function, or possibly in some instances, the other hemisphere of the brain may be called into new activity To central spinal palsies, as well as to paralysis from brain disease, in a large measure

Another method of gymnastic treatment which I tionate to the cerebral lesion by which it has been have often employed with benefit in cases of monoplegia and hemiplegia, is to cause the patient, first, to make a movement upon the unaffected side, and then instantly to perform the same movement with the paralyzed member, following this quickly with an attempt to do the same thing with both limbs surprising the curious results that will be sometimes obtained in this way, if the leg is but little affected, We should, therefore not disregard entirely the and the patient can stand while these movements are performed by the upper extremities To exer-The course of treatment usually pursued in these cise the legs, the patient, of course, should be placed cases, in the main wise, is, at first, to do little more in an easy position, and one that will allow the than protect the patient from disturbing influences, movements to be performed with the greatest con-Exercises of this kind probably have flammation which sometimes accompanies or follows some effect in bringing the paralysed side of the it, have subsided—that is in a few weeks or months body under control of the uninjured side of the -to give absorbents and alteratives, and to apply brain through commissural channels in the spinal

For some of the arthritic neuroses, and for rheuthan this, however, should be done, and it is just matic neuritis, or muscular rheumatism, these exerhere that single active exercises, after some thorough cises are of undoubted value. I have seen three cases of a form of rheumatic neuritis affecting the sistent with safety, should be made to unite again deltoid and adjoining muscles, in which the progress to complete recovery was much assisted by an early resort to dumb bell exercises and pulley-weights Cases of this kind are best treated by using large doses of oil of gaultheria, or sodium salicylate, with hypodermic injections of morphia in the most acute stage, a little later resorting to massage, electricity, or both, and then to exercise with light dumb bells or pulley-weights Here, again, the point I wish to impress is, that such active exercises should not be deferred too long

Hysterical aphonia or apsythria (loss of the power of whispering) can sometimes be treated successfully by a species of respiratory gymnastics, or a combination of respiratory with vocal and muscular gymnastics Dr Mitchell has described a method of bringing back the voice, which is really a form of respiratory gymnastics, a method which I have used several times with success, and less frequently with Speaking of a woman who had good power over the laryngeal muscles, but could neither speak When a little headway has been nor whisper, he concluded that if he could teach her made, systematized active movements should be to speak only with a very full chest, he might secure used in conjunction with electricity, massage, and an involuntary success. Asking her to fill her lungs duplicated active movements in an orderly and several times, and when very full to keep her mouth wide open, he then had her try to sound the broad ble movements, and particularly those which are made a clear, audible sound, and was at once on the high road to cure Some years ago, with this simple method, I obtained a brilliant success with a young lady who had not spoken even in a whisper for many months I now combine light dumb-bell and pulley-weight chest exercises with this method

In certain cases the treatment by rest, seclusion. etc, can be successfully combined with that by systematized exercises After the nervous or broken- in the treatment of skin diseases by Unna down patients suitable for the treatment have progressed to a certain point, after their nutrition has been placed upon a firm basis, respiratory exercises without apparatus, or with very light dumb-bells, can be carefully begun Five minutes, or perhaps only three minutes, should be taken at first, and the time should be increased with the utmost caution recent neurasthenic case with hystero-epileptic seizures, after the patient had improved under the rest treatment, systematized active exercises were resorted to with the greatest benefit In those cases of hystero epilepsy in which the seizures are partially voluntary, or of the induced voluntary kind, the use of such exercises assist the patient in obtaining the control of herself, and the movements which enables her to resist the beginning of the attacks

Dr. C F Taylor, in the book to which I have already referred, has hit the secret of the combination of rest and exercise in certain cases

"The true remedy," he says, "is rest and exer-Let the rest be complete relaxation of all muscular effort-not the entertaining of company, sitting bolt upright, so that the spinal muscles must be constantly acting, or reclining in a 'graceful' attitude on a lounge, with book in hand, but a completely sustained position, when all the muscles must Then the exercises to follow should cease to act be short, varied, and taken with some vigor "

The now generally accepted views with reference to cerebral localization throw some light upon the manner in which systematized active exercises, or other forms of gymnastic treatment, improve or repair the nervous system, and especially the brain This fact has not been overlooked by authorities in tations of rheumatism neurology and gymnastics, as by Emil Du Bois-Reymond, Schreiber, Crichton-Brown, and others In the brain are represented both a differentiation and an integration or solidarity of function for speech, for vocalization, for particular move ments, for the special senses, for the muscular sense for organic sensations, for some of the higher faculties, as of attention and inhibition, are now, with reason, claimed to have been isolated localization of some of these, as of speech, motor, from pain and some of the sensory centres, the facts and arguments are practically incontrovertible est of terms, if brain centres which determine cer- ichthyol act more powerfully in allaying the pain than tain movements exist, the performance of these any known medication movements must develop and train not only the muscles concerned in these actions, but the cerebral | drug centres with which they are connected

ICHTHYOL IN SURGERY

Read before the Philadelphia County Medical Society, January 25, 1888

> BY EDWARD MARTIN, MD, OF PHILADELIHIA

Ichthyol was first described by Schrotter, and used obtained as a clear yellow-brown oil by distilling a certain bituminous matter found in Tyrol, and containing the fossilized remains of fishes and marine anımals By the action of sulphuric acid on this distillate, and subsequent neutralization with soda or ammonia, either the sodium or ammonium sulphichthyolate is produced. The latter compound is preferred by Unna

The ammonium sulphichthyolate is reddish-brown. clear, syrup-like liquid of burning taste and odor, soluble in water, making a clear, red-brown solution, also soluble in equal parts of alcohol and ether

The ichthyol preparations are characterized chemcally by their richness in sulphur (10 per cent), so intimately united that it can only be extracted by complete decomposition (Lartigeau), they easily take up oxygen, acting as powerful reducing agents (Baumann)

Clinically, the ichthyolates are described by Unna as being powerful antiphlogistics, causing anæmia and rapid subsidence of swelling in all tissues. This antiphlogistic effect is ascribed to the drug's action on the endothelium of the bloodvessels depriving it of oxygen in virtue of its reducing properties, and contracting the lumen of the vessels This explanation is not, perhaps, entirely satisfactory, but physiological studies have not yet given us a better one. The cornifying effect of the drug on the epithelium of the rete is undoubted

Surgically, what are the indications of the drug? Lartigeau states that it is indicated in all subcutaneous and inflammatory tumefactions, cedemas, vascular dilatations, incipient furuncles, and local manifes-

Elliot praises it highly in burns of the first and second degree (5 per cent solutions in water) as producing rapid subsidence of pain and inflammatory symptoms He finds its application to obstinate varicose ulcers associated with eczema rubrum (sodium compounds, 3 to 5 per cent) at times produc-tive of marvellous results In his hands it is also useful in cicatrices, and in a few cases of rheumatism For the and neuralgia has given immediate and marked relief

Schweninger states that in rheumatism, lumbago, In the plain-lischias, tic, gout, and migraine, local applications of

> Lorenz is astonished at the fabulous efficacy of the In acute and chronic joint rheumatism, acute muscular rheumatism, mastitis, panaritis, and confusions, a few rubbings with pure or 50 per cent ichthyol compounds are peculiarly successful in allaying pain and hastening healing. In chronic and acute while this is the rule in acute muscular rheumatism

DR AUVARD has been made Editor of the Archives de Tocologie, the well-known obstetrical and gynecological journal, published by Delahaye and joint rheumatism relief often follows a single rubbing, Lecrosnier, of Paris

The pain of gout disappears, the shining red skin becoming quickly wrinkled A beginning mastitis or panaritis is always aborted, or if fully developed the pain is much relieved. Its prompt use prevents the discoloration following contusions It immediately allays the pain of a burn, and prevents blistering Finally, a 10 per cent solution hastens the cicatrization of badly healing ulcers

compound cannot be borne and prevents irritation of

Von Nussbaum states that a single application of ichthyol i part, water 4 parts, lanolin 5 parts, has allayed the itching of eczematous ulcers which had resisted all known applications for weeks and months, and promptly brought about rapid cicatrization on being continued a few days Arthritic pains, which for weeks have made day and night miserable, are relieved at times in one-half minute after the application of a strong ichthyol ointment. In erysipelas it produces results obtainable by no other means, namely, the immediate arrest of the disease Nussbaum's treatment was first the thorough disinfection and drainage of the wound, then, if the disease continued to extend, over its whole surface a thick layer of ichthyolate and vaseline, equal parts, was spread and covered by a layer of 10 per cent sali-The erysipelas advanced not a line cylated cotton further and in a single day the swelling disappeared and the red, shining, puffy surface became yellow, brown, and wrinkled This remarkable effect you Nussbaum ascribes not to the influence of the drug as Fehleisen's cocci, but rather to a change produced in the tissues by virtue of which they cease to favor instance the growth of the microorganisms

Stelwagen has had excellent results in the abortion

of furuncles by ichthyol preparations

Agnew (D Hayes) considers the ichthyol preparations more powerful than any known therapeutical agent in bringing about reduction of inflammatory enlargements, and has had particularly good results in recently enlarged lymphatics He uses sulphichthyolate of ammonia and iodide of lead, equal parts, applied generously and covered in by oiled silk

The writer has used ichthyol in-

I Six cases of cervical adenitis, with absolutely no relief, cure being subsequently brought about by 10dine or the knife

- 2 Fifteen cases of marked inflammatory induration of the subcutaneous tissue, with invariably a speedy and in some cases almost a magical reduction, and this after other means had been tried unsuccessfully
 - In two cases of furuncles without good effect
- 4 In one case of cellulitis without marked effect till the knife was used (in this case staphylococci were found but no chains)
- 5 In four cases where pain was the most marked feature of inflammation, with complete relief in three and no effect in the fourth
- 6 In one case of erysipelas of the scalp, with ımmediate cure

The latter is so striking that it is reported in full

B C, bartender, æt 36, full-blooded Irishman Struck on the head by a bottle whilst intoxicated, December 20, 1887 Two slight wounds of the scalp, to which no dressing was applied 22d Chill, fever, nausea, great pain in the head, and swelling to a clinic, wounds were opened, disinfected, and catgut drainings provided, symptoms progressive He was seen by the writer on the second day of his Loring dilutes with water when the pure ichthyol fever, the fourth from the infliction of the wound No sleep for two nights Pulse 106, temp 103° the skin by careful washing and drying before each Violent headache, whole scalp puffy, cedematous, application and very tender, a few drops of thin pus squeezed from wounds Cover-glass preparations of blood from puncture by tenotome showed Fehleisen's chains A saline purge and iron were ordered internally On the scalp was placed a thick layer of ammonium ichthylolate and vaseline, equal parts The pain was relieved almost immediately, the patient slept comfortably, his temperature the following morning was 98°, and he was and remained well

This is not different from the results obtained by

Nussbaum

With the exception of the case of erysipelas, the writer used a 10 per cent ointment of ammonium ichthyolate in lanolin, fearing lest, in the case of stronger applications, his effects might be ascribed to counter-irritation It is possible that stronger preparations would have proven efficacious in the treatment of adenitis in which the weak ointment failed

The extravagant praises bestowed by some authors on ichthyol savor more of proprietary advertisements than scientific contributions, and the variety of affections for which it is recommended might well make one doubtful as to its complete efficacy in any single

An analysis of the cases in which it has proven serviceable will show, however, that they can be relegated to one of two classes

r Affections characterized by inflammatory enlargement

2 Affections characterized by pain of peripheral origin, probably depending on inflammation or congestion

For either of these conditions, theoretically, a powerful antiphlogistic would be indicated, so that the clinical indications for the use of the drug corres-

pond to its alleged therapeutic effect

When the surface is irritated, weak solutions (3 to 5 per cent) should be used, but when the skin is intact and the subcutaneous tissues are to be affected, pure or one-half strength ointments give the best re-In using strong preparations the skin should be washed with warm water and soap, and thoroughly dried before each application Ichthyolates can be combined with any of the ointments, or can be dissolved in water

The writer's success with the drug, even where it was not used in the most efficient manner, has convinced him that the praise bestowed on it by the Germans is well merited Where suppuration has actually taken place the weak ointment is not of service, but in the allaying of inflammatory pain and the resolution of subcutaneous induration (excepting adenitis) the results are most satisfactory

SOME INTERESTING SEQUELÆ OF A CASE OF SCARLET FEVER

Read before the Philadelphia County Medical Society, on Janu ary 25, 1888

BY A J DOWNES, MD, OF PHILADELIHIA, PA

On November 15, 1887, at 3 P M, I was asked to see B M, a boy of 7 years, then under the care of a homeopath, and said to be dying of heart disease I called immediately The boy was comatose, had been so for twelve hours The face had a characteristic pallor, the eye-lids were slightly puffy, the

pupils dilated, the breathing stertorous

I listened to the heart and heard a loud systolic apex murmur, a diastolic one at the right base, and mingling with both a peculiar whistling sound, the cause of which at the time I did not understand Examining further, I found that the eyelids had become puffy two days previous, that the feet and ankles were now swollen, and the scrotum slightly No urine had passed in twenty-four hours cepting a few scybala, forty eight hours before, the bowels had not moved in seventy-two hours

The child had scarlet fever five years before I told the father that the boy did have heart disease, but that he was dying of uræmia Shortly after 5 PM the boy was dead The following morning Dr Martin Rively and myself made a post mortem examination The specimens I show are

the heart, kidneys and a piece of the liver

So advanced cardiac lesions in a child of this age are far from common The ventricles are both hypertrophied and the cavities dilated, the right con-The curtains of the mitral valve are affection thickened and fibrous, the posterior leaflet is exceedingly contracted and shows above it a recent almost natural course The aortic curtains are a beautiinflammatory area ful picture of an insufficient valve The whistling sound I heard during life must have come from the tricuspid valve The hypertrophy of the muscular elements of the ventricle, with the marked distention to which the cavity was subjected, surely allowed sufficient leakage to cause this sound

On account of its so late recognition and its undoubted influence in enhancing the cardiac condition | middle-ear affections, is by no means uncommon, and the state of the kidneys is exceedingly interesting Even microscopically the kidneys show changes fallacy of supposing that a chronic otorrhœa is best which must have been going on for some time pale cortex and the eversion of the cut edges indi-Under the microscope we find evidence of colored, æt 15 years long existing changes, sufficient to warrant the as- attack of measles, following which came a discharge sumption that in the long-ago attack of scarlet fever from the ear and almost complete loss of hearing the kidney changes began The tubules are swollen, She was always sick Headache was a frequent distorted, and full of casts The epithelial cells affair, and at the time of my visit she was experihning them are somewhat granular and smaller than encing an unusually severe attack. There was some normal with their nuclei becoming indistinct Long fever, constipation, loss of appetite, rather slow existing changes therefore We find also recent pulse Bromide of potassium was given for the headconditions

The glomerules are swollen and congested and in their vicinity an infiltration of small indifferent cells A very characteristic glomerulo-nephritis of recent night. I now examined the ears and found the left The cause in this case of anuria and conse- meatus filled with pus quent urremia And the history points to this for that she had suffered from the ear disease, with dis-

the boy, although not well for a few years back, was comparatively so For two weeks previous to his death he was confined to his bed, and undoubtedly during this time he was suffering from a glomerulonephritis which, adding itself to an already damaged kidney, precipitated an attack of uræmia

Additional proof that the boy's kidneys were not normal prior to his last sickness is not wanting bladder, post-mortem, contained about two ounces -twenty-four hours' urine-of this I collected one It contained a large amount of albumen but no sugar, round and columnar epithelial cells showing fatty degeneration, a few epithelial casts containing oil globules and some free oil A few weeks nephritis could not cause this urine

The liver changes are secondary to the heart con-Under this microscope it shows both fatty

infiltration and degeneration

In concluding, I would recall the points that in-First The extensive terested me in the case cardiac lesions caused by scarlet fever, occurring in a child under 2 years Second The late recognition of the heart, the non-recognition of the kidney con-Third The occurrence of acute inflammation—the glomerulo nephritis almost typical of scarlet fever-in an already damaged kidney Finally May I not call attention to this case as showing to what extent the sequelæ of scarlet fever may advance when not recognized and treated history of the case proves such to be the fact Eight homeopaths in succession had charge of the Over a year boy for four years prior to his death The one in ago one had diagnosticated diabetes attendance before my visits had recognized valvular But the kidney lesions had escaped them Apparently this proves that the case ran an

ABSCESS OF THE CEREBELLUM CAUSED BY DISEASE OF THE EAR

BY THOMAS C SMITH, MD, OF WASHINGTON D C

Disease of the brain caused by the neglect of the case to be reported is another instance of the

The treated by being let alone

On August 29, 1887, I was asked to see M W, When an infant she had an ache, and the bowels were moved by suitable means At my next visit I learned that the girl had had convulsions after my visit, and had passed a sleepless Her mother informed me

charge, ever since the attack of measles, as already mentioned At times the discharge of pus would cease for a while but her symptoms did not seem to be modified thereby She did not think anything could be done for the ear disease, consequently, nothing had been done. The mother was given to understand that the headache and convulsions were due to the ear disease and an unfavorable prognosis The ear was syringed and an astringent was given used to try to influence the diseased middle-ear tissues Chloral at night secured sleep, and after a week my instrument, as now arranged, leaves both hands of visits were discontinued On September 14, the girl came to my office with her mother, and the ear was examined The purulent discharge was not quite so free, but the meatus was so much obstructed by granulation-tissue that it was impossible to get a view of the deep portion of that tube condition of the girl was so bad that I did not think any treatment would avail much Still, she was I did not see her again until the 12th of On the 14th she was easier, but she was disposed to be drowsy On the 15th coma existed the sinus and she died about the middle of the day The diagnosis of intracranial abscess had been made paralytic symptoms existed at any time

Brain surgery is making such great advances, that the time may come when all intracranial abscesses and tumors will be subjected to the same treatment as when they occur in other locations In view of the fact that the existence of abscess was so clearly established in this case, the question arises, Why was not the skull trephined and the abscess sought out and opened? In the light of the symptoms presented, I answer the question by asking another Where would the surgeon have applied his trephine? And with the post-mortem evidence before us, I ask whether an operation would have been correctly located before the patient was in extremis?

The autopsy was made by Dr Lamb, and I append

his notes

"Necroscopy — Head alone examined Left meatus auditorious externus occupied by thick, purulent matter of dark, rather bloody hue Dura mater normal, except on posterior surface of petrous portion of left temporal bone, where the adhesion was a little greater than normal around an opening in the bone, this opening was one-quarter of an inch in diameter and communicated with the tympanic cavity, this cavity, again, was enlarged by progressive excavation of the bone, into a chamber an inch in length, and of corresponding breadth and height Cerebrum normal Left hemisphere of cerebellum, anterior half converted into an abscess "

KASCHAN HOSPITAL -A few years ago three Russian female physicians founded a hospital at Kaschan, Persia, for Mussulman women The extwelve months 15,000 patients have been treated

MEDICAL PROGRESS.

THE TELEPHONIC BULLET-PROBE —At the meeting of the Surgical Section of the New York Academy of Medicine on January 9, Dr J H GIRDNER read a paper on this subject. In the past year he has perfected the instrument that he described a year ago, and now operates it by a current of electricity extracted from the body of the patient himself the operator free, and shuts out all sound except that heard when the bullet is touched Dr Girdner re-

ports the following case

A musket-ball had lain between the tibia and fibula for twenty-two years A long, narrow, tortuous sinus The general had been discharging for a year When an ordinary probe was passed, hard substances could be felt in many places, but you could not tell if bone or bullet ordered tonics and good nourishment, and the ear was being probed The porcelain probe could not was to be cleansed with astringent and antiseptic have been marked by the lead owing to thick crusts of salts of lead with which the ball was covered, even the present month She was in bed suffering from if it could have been brought into contact with the bullet, which it could not, owing to narrow places in Bone and other tissue were felt as the probe passed to different parts of the wound, but no No response was heard in the telephone until the leaden bullet was touched, then an electric current passed The case is interesting from a surgical point of through the telephone, and as often as this current was made and broken, by touching and removing the probe from the lead, so often was there a vibration of the diaphragm, and consequently a clicking and scraping sound heard in the telephone, in other words, the patient's body was converted into an electric battery, the body corresponded to the cups, its fluids and heat to the battery fluid, the steel bulb immersed in the mouth to the zinc, let us say, and the lead when it was touched, to the carbon, and thus our battery was completed, a current obtained, and the metal diaphragm made to vibrate

The advantages of this instrument over all others beneficial even supposing the abscess to have been at once appear, when it is remembered, that in its use the accurate sense of hearing is substituted for that of the sensation communicated to the hand, which is always unreliable, for no one can tell if a hard substance felt in a wound be bone, metal, or some other hard tissue The porcelain-tipped probe was made with the hope of overcoming this difficulty, but after ample experience with the Nélaton probe, both in my own hands and in those of others in my presence, I am certain that, unless the bullet is perfectly clean from grease, lead salts, etc., and very favorably situated, it is not possible to obtain lead markings on the porcelain tip which can be relied upon to direct our operative procedure Let any one hold a bullet in the hand, and probe it with a Nélaton probe until the markings of the lead on the porcelain point are perfectly distinct, and he will find that it requires an amount of force and pressure in rubbing the lead which he will rarely be able to make, even in the most favorable cases of gunshot-wound None of the above conditions, which make the Nélaton probe periment has met with great success, and in the last useless, in any way interfere with the perfect working of this new probe, for the slightest touch of the bullet

with the probe causes a loud and unmistakable sound Another great advantage is, that in the telephone a sharp, slender, steel needle may take the place of the blunt probe, and then no tract is necessary in probing, the needle, rendered aseptic, may be thrust into the tissues like a hypodermic needle, with little pain, and no danger to the patient, as has been verified in actual practice, and when the bullet is struck, you have only to loosen the clamp-screw and remove the handle, allowing the needle to remain fast in the tissues, with its point still in contact with the missile, and it serves as a perfect guide in cutting down on the bullet -Medical Record, Feb 4, 1888

SALT IN MILK FOR CHILDREN -DR JACOBI SAYS that the physiological effect of chloride of sodium is very important, no matter whether it is directly introduced through the mother's milk, or added as a much as 15 grains in twenty-four hours, the only condiment to cow's milk, or vegetable diet of the latter contain more potassium than sodium, and neither ought ever to be given, to the well or sick, without the addition of table salt of that which is introduced may be absorbed in solution, another part is, however, broken up into another sodium salt and hydrochloric acid serves directly as an excitant to the secretion of the glands and facilitates digestion Therefore during diseases in which the secretion of gastric juice is interfered with, or in the beginning of convalescence, when both the secreting faculties and the muscular power of the stomach are wanting, and the necessity of resorting to nitrogenous food is apparent, an ample supply of salt ought to be furnished excess of acid which may get into the intestinal canal unites with the sodium of the bile in the duodenum, and assists in producing a second combination of chloride of sodium, which again is dissolved in the intestines and absorbed Its action in the circulation is well understood it enhances the vital processes, mainly by accelerating tissue-changes through the elimination of more urea and carbonic acid

A very important fact is also this, that the addition of chloride of sodium prevents the solid coagulation of milk by either rennet or gastric-juice The cow's milk ought never to be given without table salt, and the latter ought to be added to women's milk when it behaves like cow's milk in regard to solid curdling and consequent indigestibility

Habitual constipation of children is also influenced beneficially, for two reasons not only is the food made more digestible, but the secretions of the alimentary canal, both serous and glandular, are made more effective by ats presence -Archives of Pediatrics, January, 1888

Tribromphenol, an Antiseptic —Grinem reports his experience with this substance as follows It is a combination of bromine with phenol, and is a mals, has used galvanism of the thyroid in the white crystalline powder, very insoluble in water, treatment of epilepsy. Of 7 cases that he reports, easily soluble in alcohol, ether, chloroform, and in 2 there was an evident diminution of the epileptic glycerine, carbolized solutions, and dilute spirits of the cure has lasted for several months -L' Electrowine It is dissolved by the intestinal secretions, therapie, January, 1888

combines with sulphuric acid, and appears in the urine as a sulphuric compound It is not escharotic, but powerfully stimulant to granulations, it does not attack the unbroken skin

It was used in gauze dipped in 2½ per cent solution, with good results, in tamponing wounds and cavities, it is well adapted as a stimulating tampon for abscess cavities, but should not be used in the pharynx, mouth, or nares

In experiments upon bacterial cultures a 1 per cent solution sterilized septic matter in thirty minutes, in 3 to 1000 solution it sterilized gelatine A small quantity added to urine prevented cultures The writer gave this substance in decomposition three doses of 1½ grains each, to a patient suffering from tænia, with good results, the whole was given within an hour and a half Personally, he took as Both effect being a slightly uncomfortable feeling in the abdomen, and an unpleasant taste

The use of this substance seems indicated to stimulate granulations, and, by virtue of its insolubility in acids and its solution in alkalies, as an intestinal antiseptic - Deutsche medicinische Wochenschrift, Dec Thus 1t | 29, 1887

> SULPHIDE OF CARBON IN ELEPHANTIASIS —DR P Anthonisz, of Ceylon, gives the results of the use of sulphide of carbon in elephantiasis, both acute and chronic, as tried by himself and a few of In some of the acute cases, the his medical friends reduction of swelling was prompt and complete, in others it was gradual but satisfactory In one, a case of thirty years' standing, a year's treatment, begun when the legs were as large as the man's waist, left them about the size of his thighs dose mentioned in the latter was two 2-grain pills per diem, to be continued for a lengthened period, except when the drug irritates the stomach, as it will do from time to time When the ill effects have passed, the medicine should be renewed writer adopts the theory proposed by Dr Manson, of Amoy, some years ago, that the disease is due to the presence, in the blood, of the filaria sanguints He believes that the remedy is efficient by hominis reason of its sulphur ingredient and its power to prevent the parasite from multiplying in the body, which, according to Dr Manson, it does with amaz-It will be remembered, that in acing rapidity counting for the presence of the filaria in the blood, the theory of Dr Manson included the novel proposition that the mosquito might carry in the parasite with his proboscis, and deposit it in tissues whence access to the blood could readily be obtained -British Medical Journal, Dec 24, 1887

GALVANIZATION OF THE THYROID IN EPILEPSY— SIGHICELLI, having noticed that thyroidectomy produced convulsions of an epileptiform nature in anitreatment of epilepsy Of 7 cases that he reports, It is dissolved but little by access A third case was completely cured, that is,

THE

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession Letters written for publication or containing items of information should be accompanied by the writer's full mame and address, although not necessarily to be published. All com munications in regard to editorial work should be addressed to the Editor

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CHICAGO, ILLINOIS

SATURDAY, FEBRUARY 18, 1888

XERODERMA PIGMENTOSUM

At the first meeting of the New York Academy of Medicine in February, DR R W TAYLOR read a paper on this subject, on which he is the recognized authority in this country The paper was based on the results of his observation and study for fifteen years, and was devoted more particularly to a consideration of the malignant neoplasms to the formation of which the disease tends in its early stages They that are familiar with the literature of this subject know that the disease is peculiar to childhood, that it is multiform in its clinical characteristics, and indelible in its disfigurements, and that it was first described by Hebra and Kaposi in 1870 ing to Dr Taylor there are now 39 cases on record The first cases reported in this country were the 7 reported by Dr Taylor in 1877, and further described in 1878 (Vid Trans American Dermatological Association) Three of the cases occurred in one family, and two in another family closely related to the first With one exception all the cases were in The boy that had the disease was attacked with mumps when about 7 years old Resulting from this attack was an abscess that had to be opened, the wound thus made never healed, but extensive ulceration followed, which finally involved the coats of an artery, and thus caused uncontrollable hæmorrhage, from which the boy died other child died of marasmus, and a third was accidentally drowned

In the 7 cases reported by Dr Taylor all the has a peculiar immobility of expression clinical features of the disease were portrayed

added certain polymorphous neoplasms that are primarily benign, but that are likely to degenerate into malignant tumors. The disease seems to be one of early childhood, and in most of Dr Taylor's cases it began at about the age of 7 months, in one case only did it begin so late as the 14th month Of the characteristics of the disease the prodromal erythema is to be emphasized, its usual seat is on the face, under the eyes, it may be easily mistaken for sun-burn This hyperæmia lasts from one to three months, and as it gradually disappears the pigment spots begin to appear. These affect the face and exposed parts of the neck and extremities, after extending as low as the third rib on the chest, and up to the elbows on the arms varies from that of a pin-head to a lentil, resembling ordinary freckles, and not elevated much above the Among these are the red or telangiectasic spots, in which capillary vessels can be seen with a strong glass The prodromal erythema is not so marked on the hands as on the face, there are no marked local or subjective symptoms, such as burning or itching, and the general health remains good The lesions are always characterized by alternating exacerbations and periods of inactivity, so that the course of the disease is more or less erratic

The period of the pigment-spots and telangiectases is chiefly that of early childhood, and these two orders of lesions are peculiar to the stage of hypertrophy The atrophic changes usually appear at the end ofthe first year The atrophy is not symmetrical, as a rule, and varies greatly in extent and intensity in different subjects, while it is not commonly so wellmarked on the extremities as on the face atrophy of the skin develops in accordance with the atrophy of the blood-vessels of the telangiectasic spots It is especially apt to affect the eyes, nose and mouth, causing ectopion, with its attendant evils, and deformity of the nasal and oral cavities often hypertrophic changes are taking place at the same time as the atrophic The face presents a mottled appearance and, in addition to the freckles and red spots, there are white patches varying from 625 cm to 25 cm in diameter The skin is inelastic and like parchment, or seems as if it is coated with inflexible collodion The appearance not infrequently resembles the cicatrix of an extensive but superficial burn There is an almost total absence of the normal secretions, and the countenance often The cases, however, the atrophy is much less marked than affection consists essentially of telanglectasis, pig- in others, and it is always less prominent upon the mentations and atrophic changes, to which are super- hands than on the face This atrophic condition, in

general, is not unlike that met with in senile atrophy years Dr Jacobi has used it with satisfactory results of the skin

While the atrophic changes are to be dreaded, on account of their liability to result in hideous deformity, the keratosic or warty patches that eventually grow from some of the pigment-spots are liable to degenerate into malignant growths In 3 of Dr Taylor's 7 cases epitheliomata were found, and the statistics of all the cases recorded seem to show that in this disease the greatest malignity is exhibited under the age of 10 years, nearly as great between the ages of 10, and 20 and after that there 15 a diminished tendency to malignity It is certainly a singular fact that epithelioma should develop in such young subjects

In regard to treatment, Dr Taylor says that intelligent medication, extending over several years, has hitherto always proved quite ineffectual, and no case of the disease has ever been cured In the treatment measures should be taken to keep the skin at rest and free from all sources of irritation, and all pigmentation warts should be removed as soon as possible with the spoon All larger tumors should also be extirpated, and the subjacent tissues thoroughly scraped, if necessary to the bone or periosteum

According to some authorities most, and to Cohnheim, all malignant tumors, occurring at any time of life, are the result of embryonic cells not undergoing their accustomed changes, and remaining behind in normally developed tissue, and if this view be accepted, it will sufficiently explain the appearance of these malignant growths in early childhood, as was remarked by Dr Jacobi Furthermore, the fact that the blood-vessels are largely increased is no doubt the result of the embryonic tissue remaining, and these blood-vessels are not in a normal condition Dr Jacobi thinks it probable that the occurrence of spontaneous thrombosis may explain the disappearance of the red spots and other phenomena in the It seems, then, as if there is an arrest of the metamorphosis of embryonic tissue, and if this be the case, Dr Jacobi suggests that in the treatment it may do good to increase the quantity of normal connective tissue, if possible, and thus fortify the parts against the further development of abnormal growths For this purpose, provided the supposition be correct, there are two remedies that suggest themselves as being specially indicated first, arsenic, By the and second—and better still—phosphorus irritation excited by suitable doses of these agents it seems possible to cause a good solid, normal nutrition in the connective tissues Phosphorus favorably influences the normal growth of bone, and for some tical chemist, but simply a certificate of ability to

in caries and other bone diseases, finding it of special service in cranial rachitis The phosphates and other compounds are of no value, phosphorus itself must be used It may be given in oil or emulsion, in doses of or grain twice a day, and it must be used for a long time

Dr Jacobi's suggestions are valuable and practical, and it would be well if some one were to institute a systematic course of medicinal treatment in accordance with them in future cases At the same time, surgical measures are of decided benefit in controlling some of the more serious results of the disease, and, contrary to what might perhaps be expected, as a rule the tissues heal well after the removal of the new growths

THE NEXT MEETING OF THE ASSOCIATION

This year will witness a change in the programme of the general meetings that has been necessitated by the constantly increasing number of Sections into which the Association has been divided Heretofore the Chairmen of Sections have read addresses before the general meetings, but according to the rule adopted at the last meeting, these addresses will in the future be read before the Sections eral meeting the President's Address will be listened to on the first day, and for each succeeding day a single address will be delivered by members of the profession especially selected for this purpose

The selections made this year will surely meet with universal approval Professor Roberts Bartholow will address the Association on the second day special topic of his address will be, "How Therapeutics may be made an Exact Science—Illustrated by Examples" On the third day, Dr E M Moore, of Rochester, will deliver an address on Surgery, and on the fourth day Dr H P Walcott, of Boston, will deliver a general address on State Medicine

We give in another department a programme of the general meetings of the next session of the Association

FEMALE PHARMACISTS IN ITALY

The Minister of the Interior, of Italy, having had his attention called to the fact that about 3,500 places in the Kingdom have no pharmaceutical service, because young pharmacists refuse to go into the rural districts, has asked the Minister of Public Instruction to admit women to the study of pharmacy It is not asked that they be given the diploma of phamaceupractice pharmacy vent the great inconveniences of the illegal practice of pharmacy, and will provide pharmaceutical facilities for communities in need of them

It is to be remembered that in Italy, as in other European countries, the drug stores are under government control and supervision—the druggist is a government appointee, and one cannot own a drug store unless he is a pharmaceutical chemist and gets a government appointment The number of druggists and drug stores is proportioned to the number of inhabitants, both in the cities and in the country, so that the druggist is sure of a legitimate trade, and does not have to eke out an existence by selling patent medicines, toilet articles, paints, kerosene oil, cigars and chewing-gum The people are likewise protected by government supervision as to the purity of the drugs, and as to the competency of the drug- A CASE OF EPILEPSY CURED (APPARENTLY) BY THE gist to prepare them

This is a further illustration of the fact that while some of the European governments may be "effete monarchies," as our newspapers are pleased to call them, they still act on that sound principle of common sense, that the health of the people is the nation's wealth

A QUESTION OF CRIMINAL NEGLIGENCE

A number of years have now elapsed since the question of color-blindness among railway employés was first brought before the public Since that time so many examinations have been made of the colorvision of railway employés, so many of such employés have been found to be partially or totally color-blind, and so many accidents have been caused by the color-blindness of locomotive engineers and other railway employés, that it becomes a serious question, are not railway companies guilty of criminal negligence-negligence of ordinary precautionswhen they place their trains in charge of color-blind men, or when they employ color-blind men for positions in which, on account of their defective vision, accidents may result? The facts are so many and so clear that it would be idle for a company to set up the defense that testing the color-vision of their employés is an extraordinary, not ordinary precaution

There is another question in regard to these tests for color-vision Are the examinations made, in addition to the Holmgren tests, with colored lights in a dark room? Railway locomotive engineers say that while some men can easily distinguish red and green colors by day, they cannot distinguish red and green lights at night as they should-and conversely

It is believed that this will pre- also seems to be the case that while some men cannot distinguish red and green as such by day, they see that there is a difference, and are guided by it, but on a cloudy, foggy or rainy night, they sometimes find it impossible to make out the real color of the light shown, and are often guided by the better vision of the fireman

SOCIETY PROCEEDINGS.

CHICAGO MEDICAL SOCIETY

Stated Meeting, January 16, 1888

THE PRESIDENT, W T BELFIELD, M D, IN THE CHAIR

DR E J COLBURN read the report of

CORRECTION OF AN ERROR OF REFRACTION

(See page 189)

DR E L HOLMES The report, I think, speaks for itself, I do not know what can be said of much interest in addition We simply know the fact that, in very rare cases, the proper adjustment of glasses has cured epilepsy We know that paring a corn may give relief, but that does not prove that corns are often the exciting cause of epilepsy said to be very rare cases in which small shoes with high heels have produced a general nervous condition-headache and disturbance of the muscles of It is useless to adjust glasses in the hope of cure until the general nervous condition has been relieved by "common sense shoes" A contracted prepuce may be, although very rarely, the exciting cause of epilepsy So we can go through the whole series of remote nervous irritation producing the trouble we call epilepsy There are some cases that are exceedingly interesting but at the same time rare Many of the cases that are reported are simply coincidences It shows us, however, how important it is in nervous trouble to seek the cause and to have the eyes relieved as far as possible by proper glasses This may not only cure epilepsy, but also other nervous troubles

DR F C HOTZ The case reported bears on a very interesting question which only within the recent past has attracted general attention was the only case and we had to judge the result of the treatment on its own merits, that is, if it was a single isolated case, without any other experience to support it, of course we would be rather reluctant to admit the doctor's conclusions, even perhaps in the modified form, as apparent relief, especially as, in the history of this case, besides the adjustment of glasses other means have been used which are known ta give temporary relief in such attacks tunately for the reporter and fortunately for us, similar cases have been reported, especially through the methodical investigations which Dr Stevens, of New It | York, has carried on for the past ten years It was

he who conceived more clearly than anyone else, I previous treatment had almost entirely failed to rethink, the idea that functional disturbances in the lieve the patient and nothing had been accomplished eye, an overtaking of the muscles adjusting the sight when he adjusted the glasses, and subsequently to or controlling the motions of the eyeballs, have a that the patient was apparently cured. The inference far-reaching influence on the whole nervous system of is fair that the adjustment of the glasses was the the human body, and are among the most prolific means of curing the patient. In reference to the sources of nervous diseases It is well known that irritations of the eye go far to excite reflexirritation some- errors of refraction, in insufficiency of the orbital where else, I need only refer to the general disturb- muscles, and of accommodation, actual or relative ances created by an attack of glaucoma or iritis I believe, in cases like the one reported to-night, the ducing peripheral and central nervous symptoms. In general nervous disorder is not caused by reflex irritation (for there is no irritation in the eyes), but it is the result of an overtaxing of the nerve forces Every human organism is endowed with a certain amount of nerve force, in some this force is largely in excess over the amount necessary for all demands of the physiological functions, in other persons, however, it is barely sufficient. It is this latter class, which has no reserve force to draw upon, that constitutes the large army of so-called nervous people Now if in such a person, to whom the nerve force has been scantily measured out, the adjustment of the sight or the harmonious movements of the eyeballs are executed with difficulty, requiring a greater duced vomiting I corrected a trifling astigmatism nerve stimulus than under normal conditions, the eyes appropriate a larger portion of the nerve force than they are entitled to, they continuously drain, as it were, the resources of the nervous system, exhausting the supply of nervous force which ought to go to other parts of the organism, and under these conditions there a very trifling exciting cause may more commonly still, by insufficiency of ocular produce marked neurotic disturbances

When we read the published observations of Dr Stevens, based upon 2,000 cases, we cannot help admitting that there is a great deal of truth and logic in his conclusions, even if we assume that a pioneer ternal, he cured 50 per cent, 40 per cent were rein a new field is unduly enthusiastic, and perhaps lieved, and only to per cent unrelieved carries his conclusions a little further than the actual facts will admit on cooler reflection and larger expe-We owe Dr Stevens a great deal for pointing out this subject, it is as interesting to the general practitioner as to the oculist, it will induce the practitioners to pay more attention to the diseases of the It is a field in which the geneye than they used to eral practitioner and the specialist can very profitably cooperate, because these cases usually consult is in the internal rectus muscle, which is determined the general practitioner first, we do not see them by examination with prisms, he punctures the exterunless they have marked disturbance of the eyes, and thus we often accidentally relieve other troubles suppose every oculist has had an experience similar to my own, that patients who have been forgotten by us meet us years afterwards and thank us, saying that by adjusting glasses or relieving some other functional disturbance of the eye they were relieved of chronic headaches or other nervous disturbance systematic investigation of the relation of eye-strain and nervous disorders which I think is the great merit of Dr Stevens, and such observations as have been reported to-night are valuable contributions to confirm Stevens' conclusions

The report that Dr Col-DR W F COLEMAN burn has made is exceedingly interesting, and if I understand him aright in regard to the treatment, all ation, which consisted of puncture of the external

cause of eye-strain, we see it in three directions In But All oculists agree as to the effect of eye-strain in promy own experience correcting insufficiency of muscles has relieved most severe and persistent headache, such an amount of headache as to induce the general practitioner to send the patient to me for examination of the eyes, to determine whether there was cerebral disease, and there would not be found any optic nerve trouble, but an error of refraction or insufficiency of ocular muscles which, relieved by glasses, Migraine is another disease relieved the headaches which is frequently relieved by correction of errors A few days ago a patient came to me of refraction who had persistent nausea occasioned on every attempt to read, and which, if persisted in, almost inand the nausea was at once relieved

As to the cause of epilepsy if peripheral irritations, as phimosis, calculus of the bladder or irritation of the ovary will produce an epileptic seizure, why not such a constant source of irritation as an eyestrain caused by an error of refraction, or, possibly muscles?

As to Stevens' results he claims that of 64 patients on whom he operated on the ocular muscles, dividing the internal recti for insufficiency of the exney, who is a follower of Stevens, has operated on He has treated 16 patients for epi-200 patients lepsy (8 by operation), cured 3, and relieved 4 out of 5 of the remainder Dr Stevens' claim seems to us as professing too much, but when we take his results into consideration we can scarcely be totally skeptical

I suppose his method is that when the insufficiency nal rectus muscle, leaving the inferior and superior border of the muscle intact if there is only a limited amount of insufficiency, say 5° or 10° dispute his clinical results, but what astonishes me is the claim of insufficiency of the internal rectus being relieved by a puncture of the external rectus not say that it is impossible, but it astonishes me that a simple puncture of the external rectus will reheve That is the means an insufficiency of the internal which Dr Stevens resorts to to relieve his patients He finds errors of refraction and accommodation and In one instance, in an asylum, corrects those errors he selected 12 cases of epilepsy with dementia Those 12 cases had, in the month previous to his operation, 170 attacks of epilepsy, but subsequent to his operrectus muscle principally, they were relieved to the This statement is corroborextent of 75 per cent ated by the Superintendent of the asylum

These are facts, whatever the explanation may be, that we cannot ignore and cannot be altogether skep-I have great respect for these statements, and full confidence that the claim by the reader of this evening's paper of an apparent cure of epilepsy is the direct result of the correction of an error of refraction, and I think from the course of treatment pursued before the error was corrected that the inference is very fair

DR CASSIUS WESCOTT As I had the pleasure of seeing the case reported by Dr Colburn, I would like to emphasize one or two points I think there can be no doubt as to the patient's epilepsy, his attacks as described and as witnessed by myself were quite characteristic In some of his attacks he was, no doubt, unconscious, but in others he probably did not lose consciousness But the condition of unconsciousness is not now regarded as an absolutely es- ness sential feature of an epileptic attack I have seen patients in the Illinois Eastern Hospital for the Inmal, who were evidently conscious throughout some of those attacks

As to the treatment of this patient before he got his glasses, I think it could have had very little effect after the adjustment of the lenses, because the doses of bromides were small and discontinued entirely before the glasses were used I believe that any person of a neuropathic tendency may have epilepsy induced by any persistent local irritation, and those of us who have experienced eye-strain know full well what an annoying irritation it is

The theory of Dr Stevens seems to me quite rational, but regarding the cause in this case as simple local irritation, I think it was quite sufficient, for I had the opportunity to witness the distress the paglasses, and his general nervous irritation was clearly The flushing of the countenance and dis- recognize him tension of the vessels of the head was quite notice- much the same manifestation, though in less degree able

Dr J E COLBURN hypermetropia and astigmatism, and any error of refraction that increases the effort of the ciliary muscle, also increases the action of the internal rectus, and almost invariably we get with hypermetropia during these years more or less preponderance of the internal rectus Of the 375 cases of hypermetropia that I have tested over 95 per cent showing a preponderance of the internal rectus the external, but the comparison between the two tages making it either a preponderance or an insufficiency, full recognition three weeks, witnessing his daily office work The a fit operation is simply taking the conjunctiva up, cut-

ing it completely, but leaving it adherent above and below I know that this will relieve as high as 12° of insufficiency and many times give a result of di-In a case that I recently operated on in vergence which there was hystero epilepsy, a marked case which had been under the treatment of some of our best specialists, the result was a - 2, and I only cut the central fibres I know it because when I did the operation I felt the attachments above and below The operation was done four weeks ago, up to the time of the operation she had had repeated seizures. but has had none since A case that I tested nine months ago has had but one seizure since, although she had been having them almost constantly before In this case the treatment was given without the patient being conscious of our object in giving her relief, she had never had any consultation with her physician about glasses giving her relief, and nothing was said to her by the family

In regard to the statement of no loss of conscious-It was the patient, not I, that made the state-I saw him in one attack in my office when I knew he was unconscious He was under treatment sane, who had frequent attacks of petit mal and grand in one of the best Western asylums and had all the care that could possibly be given, but immediately on resuming his work the seizures returned with their old violence After he came under my observation he attempted in my office to do a little writing, but just as soon as he tried to do anything of that kind I could see the pulsation in his head and neck, the capillaries would show marked distension and he would become morose and sullen, then he would go out and wander around the streets for a few hours and have a seizure on the street or at his boarding-But since I put him under treatment up to this time he has had but one seizure, and from a flushed, red-faced, brawny looking fellow, a man who looked as though he would have all the bad impulses and habits of drink (many times I thought he must tient suffered from attempts to use his eyes without be under the influence of opium or liquor), he has improved until people who knew him before hardly When he was at school there was

I do not claim that errors of the recti muscles are It is a well-known fact that the cause of many cases of epilepsy, but I think that in certain cases it is so I have known Dr Stevens' work for fifteen years He was my instructor in Albany in 1873, and I have seen his work at intervals While he is an enthusiast, he is honest and candid, and his work will show him to be conscientious and an accurate observer during the past year, with this in view, I have found ber that a few years ago it was almost a disgrace to I rememspeak Dr Stevens' name, it would be said, "Oh, Not necessarily a lack of strength of he's the prism crank!" He labored under disadvan-The question of reflexes had not received its But I think any one who has sufwhichever you choose to call it Regarding the fered from error of refraction can easily see how an I had, two years ago this irritation of this kind can produce cerebral congesspring, the pleasure of being with Dr Stevens two or tion and this go on until it explodes in the form of

I remember a case of a boy of 18 or 20 years who, ting through it and then exposing the ocular end of during the latter part of every term of school, would the tendon, grasping this with a pair of forceps and suffer from nervous sick headaches until he would snipping away the central portion of it, not detach- get into a hysterical condition and have to leave

Biomides and chloral were tried, but all of his school life was maired by this defect, and it was not until the error of refraction was corrected that he was able to do systematic work

I saw many of Dr Stevens' cases of epilepsy, and it was wonderful to see the results of two or three weeks' treatment Patients would come theredrooling, idiotic children, young men and women, and their whole physical condition would seem to be I remember a child, in appearance about changed 13 years of age, but in reality 18 years old She was drooling and idiotic-looking, and in three weeks I saw the child and failed to recognize her Her head was up and her whole bearing changed, and she was bright-Before that she would come into the room sullen, suspicious and angry. It seemed almost a marvel, and I do not wonder that Dr Stevens is many times seemingly extravagant in his statements

In regard to failure to cure, I think it is well established that nervous cases are the most difficult to There is a certain condition, a neurasthenic tendency acquired or hereditary, and when the predisposing cause is removed there may be for a long time a slight irritation. I have noticed many times in treating cases of chorea, directly due to errors of refraction, that the patient would show marked signs of movement every time the menses came on, showing that a little disturbance throwing the system out of its usual routine would bring it about

I call to mind a chorea patient that I first saw on She was with two women who got her a street-car in and out of the car as well as they could There was something about the position of her head and eyes that attracted my attention As they were evidently poor people, I handed my card to them They called upon me in the course of three weeks quired the efforts of the father, mother and sister to get the child into the office from the time of her first visit and two weeks following her full correction, H a = +2, +1 ax 90, the chorea had almost disappeared-so much so that a person unacquainted with her would hardly notice the unusual motions, and within a year there were no choreic motions except a nervous movement of Before that she was fast getting into an epileptic condition Now she is perfectly well, using liver, and was hard to get at, that even if a suture In her case I was obliged to do tenother glasses omy to relieve 80° insufficiency In the case of Mr T I did not do tenotomy, as I was able to overcome I had plenty of time and I practhe insufficiency ticed him with prisms for a month or six weeks and then taught him how to do it I would again call attention to the intimate relation between hereditary nervous headaches, chorea, epilepsy and insanity, to the hereditary transmission of ocular defects and their resulting irritations, and to the apparent frequency with which they occur in the same patients

(To be concluded)

OBSTETRICAL SOCIETY OF PHILADELPHIA

Stated Meeting, Thursday, December 8, 1887 THE PRESIDENT, T M DRYSDALE, MD, IN THE CHAIR

(Concluded from page 186)

Dr M Price exhibited a

KIDNFY REMOVED FOR GUN-SHOT WOUND

The patient, a young girl, was handling the weapon when it exploded, the ball entering in front, on the right side, and passing through the liver and kidney and burying itself in the spinal muscles At the time of the operation, twenty-four hours later, the pulse was 150, the temperature 103°, peritonitis had set in and the patient was in a collapse. An incision six inches long was made and arterial blood was seen escaping from the kidney, which it was thought best to remove The liver wounds were dry and not oozing Rapid improvement continued for nine days, but there has since been a rise of temperature, and now, the 19th day, temperature is 100°, pulse 108. and all doing well

DR KELLY said that Dr Price would have to defend himself better for removing that kidney The indication was almost as great for removing the liver, which the ball had also traversed The hilum was a half inch distant and a suture would have been safe and would have checked hæmorrhage I thus stopped the flow following the puncture of a trocar in a case of hepato-phlebotomy which I performed a few weeks I think Dr Price will find sufficient evidence for this late rise of temperature in a focus of suppuration around the ball in the lumbar muscles

DR J PRICE remarked that a large quantity of arterial blood had been voided from the bladder a few Within two months hours after the injury this hæmorrhage was irregularly recurrent showing its kidney origin, and that large vessels about the hilum of the kidney had been wounded Stitching of the kidney would not have been sufficient—incision and ligation was out of the question All the indications were for removal diagnosis had been clearly made of renal injury

DR M PRICE said the kidney lay far up under the could have been put in the anterior wound it would have been utterly impossible to have reached the posterior one, excepting by another incision through the back, besides this, the blood welled up so freely that is was not possible to see exactly what he was doing, and he had to trust to his sense of touch He could not account for the high temperature at this late date, excepting it be from the collection of pus at the end of the tube, which was not removed, as it should have been

DR B F BAER presented the specimen and read the following report of

A CASE OF TRAUMATIC HÆMORRHAGE INTO AN OVA-RIAN CYST, FOLLOWED BY PERITONITIS RECOVERY OPERATION

I feel warranted in presenting this specimen and relating the history of this case because of its unusual

Dr Hanneage Gibbs, late of Westminster Hospital, London, has just entered upon his duties as Professor of Physiology in the Medical School of the University of Michigan

E A, et 45, married, seven children, character youngest 7 years, miscarriage two years ago, had always, until the present trouble, enjoyed good health furniture she lifted one end of a heavy chest soon after became conscious of a slight pain in the That night, however, she was awakened by n ork a sharp pain in this region, so severe as to cause her to "bend and writhe in agony" The pain extended down the left thigh and to the back, was accompanied with nausea and vomiting, and continued with great severity during the entire night before she obtained any relief whatever. On the next day her entire abdomen had become very tender and swollen (tympanitic), but the severe pain of the night before had subsided She gradually recovered from this attack, and was about again within two weeks, but she still had occasional attacks of sharp pain, and was treated for neuralgia Soon after this she noticed that her abdomen was larger than usual changed physicians and was treated for "dropsy and worms," by free purgation This greatly prostrated her and caused a return of the pain and other symptoms of the first attack

My friend, Dr O K Adams, was now called, and found the patient in great agony, the pain being most severe in the left ovarian region, but extending over the entire abdomen, which was tympanitic thighs were fleved, and her expression anxious Temperature 103° On the next day it had risen to 104° She remained very ill through the next few weeks, after which she gradually improved When the tympanitis and tenderness had subsided enough to permit an examination, Dr Adams discovered a cystic tumor in the lower abdomen, which he correctly pronounced ovarian As soon as she was able to be moved, the patient was sent to me

On examination, with the patient in the dorsal position, I found the abdomen distended by a circumscribed mass which occupied a position between the umbilicus and the pubis, projecting and about the size of the pregnant uterus about the sixth month, though not symmetrical, being to the left of the median line more than to the right. There was no resonance over the entire surface of the abdomen, even over the tumor on light percussion, deep percussion, however, gave a dull note By palpation the tumor was found to be fixed to the abdominal walls and deeply in the left pelvic region Vaginal examination showed the uterus to be retroverted, and upon it the lower surface of the abdominal tumor

To the left of the uterus a nodular mass was felt, apparently connected with the lower surface of the Movement of the tumor caused the uterus to move with it Fluctuation was elicited by bimanual palpation I advised immediate removal of the tumor, although the patient had not yet fully recovered from the last attack of peritonitis Temperature still above 100°, sometimes 101° in the aftercharacter of the inflammation, and its probable trau- blood in process of organization

sac had been suspected, although signs of pregnancy had been absent There had not been suppression of menstruation, but since her first attack of pain In December, 1886, while engaged in rearranging her ther catamenia had been very profuse, lasting from ten days to two weeks

Operation, March 15, 1887 Incision 3 inches long left ovarian region, but she continued with her usual in the usual position, and the tumor exposed. It was now found that adhesion between the cyst wall and that of the abdomen was so intimate that it was difficult to distinguish which was the cyst and which the I began by separating the tumor from peritoneum the peritoneal surface, hoping to find a place where adhesions did not exist, but in this I was disappointed, for the peritoneum was firmly glued to the anterior and lateral surface of the cyst wall, while above the intestines and omentum were closely adherent to it The tumor was now tapped, and a thin, serous-looking fluid tinged with blood, was drained away The cyst was only partly emptied, as it contained a semi-solid material which could not flow through the canula Room had, however, been gained so that the dissecsection could be continued By a careful manipulation the upper part was separated from the intestine and omentum by amputating the latter, when it was found that the lower lateral surface was adherent to the sigmoid flexion, while the base of the tumor, broad ligament and uterus were so united as to form one mass

After farther dissection the cyst was drawn out and the short thick pedicle examined This was found to contain masses of thick, clotted blood, both within and around it After further cleaning and examining, this nodular mass was found to be the Fallopian tube, distended at several points with clotted blood temporary ligature was now thrown around the base of the cyst, which was then removed This facilitated the further dissection which was necessary to form a proper pedicle, which was now transfixed and tied, and the smaller mass cut away The right ovary was healthy and was not removed The abdominal cavity was next thoroughly cleansed, a drainage tube inserted and the incision closed The patient recovered, and went home on the twenty-eighth day after the operation, but it cannot be said of her that she recovered "without a bad symptom" She did comparatively well during the first four days, but on the fifth day her temperature increased to 103°, although there was no pain or other symptoms of active inflammation, the next day it was 104° The patient now complained of pain at seat of pedicle, and the left leg was found to be slightly swollen The drainage tube was now removed, although there was still some discharge through it The bowels were also moved by a turpentine enema Her improvement after this was slow, but sure, and she sat up on the eighteenth day

Examination of the specimen after its removal showed it to be a thin-walled monocyst quite half-filled with a fibrinous material, a portion of which is presented with the cyst This was not at-This advice was based upon the recurrent tached to the cyst wall, and resembled coagulated matic origin—twisting of a pedicle or rupture of a brane of the cyst was smooth, except at several places blood vessel Rupture of an extra-uterine gestation where a dilated vein as large as a quill was apparent

icle was the Fallopian tube and broad ligament Why it was in this condition is difficult to determine, unless it was from twisting of the pedicle, but this could not be fully made out at the operation dilated condition of the veins in the cyst and in the pedicle and the evidence of hamorrhage within the cyst cavity, as well as around the pedicle, render it probable that rupture of blood-vessels from stasis had taken place

PHILADELPHIA COUNTY MEDICAL SOCIETY

Stated Meeting, January 25, 1888

THE PRESIDENT, J Solis-Cohen, MD, in the

DR JAMES TYSON exhibited

FLEISCHL'S POLARIZING SACCHARIMETER,

made by Reichert, of Vienna, and explained its use The deviation is indicated by the displacement of a dark band continuous in two parallel spectra, when no glucose is interposed and the instrument reads o When a column of sugar is interposed a deflection takes place, and after the continuity is again restored the percentage of sugar is read off from the vernier Dr Tyson said the polarizing saccharimeter could not be recommended for testing qualitatively very minute quantities of sugar, say anything less than 1/2 of 1 per cent, Fehling's solution being really more Nor can it be said that there is any saving of time in testing quantitatively solutions containing less than I per cent The advantage of its use is shown in determining from day to day the quantity of glucose in specimens containing considerable amounts, where the requisite dilution and titration occupy much time In very clear urines it is not necessary, with Fleischl's instrument, to decolorize with acetate of lead solutions, but where they are not almost colorless it is necessary to treat with basic acetate of lead in the proportion of i c c to TO of urine and filter, when one tenth should be SECOND SURGEON TO THE RICHMOND, (VA.) EVE, EAR, AND THROAT INFIRMARY added to the reading of the vermer

The instrument to which DR L Wolff said Dr Tyson referred, and which I had the honor to bring before you here, is known as a polarizationmicroscope, though this is an improper term, as it is simply the utilization of the microscope stand for the adjustment of the parts of a polarizing sacchari-I imported the parts constituting this about a year ago from the manufacturer, Paul Waechter, Its principal advantage is that of price, which, to the best of my recollection, is about twenty-Like all other five dollars when bought here saccharimeters it consists of a polarizer which, as you see, is attached to the substage, on the top of this fits a plate consisting of two demidisks of quartz of opposite rotary power, which let the intersecting line be readily seen through the analyzer This latter with the vernier and homus fits into the micro-scope instead of the draw tibe The analyzer or N Howard St, Baltimore, Md, who perfected it for

The knotted irregular mass which formed the ped-scale can be so adjusted that when the nomus points to oo the two semidisks will be of an even neutral violet tint In this position it is fixed with a screw The tube is then withdrawn and the glass container with the urine is screwed in, when the whole is re-In looking through the instrument it will now be seen that the two semidisks are no longer of neutral tint, but one is red and the other blue. On rotation this inequality of color will disappear at a certain point, and when the neutral violet tints are again seen, the angle is read off. With this angle you can refer to the accompanying table and read off the amount of sugar present in grains contained in one litre, or by dividing this by ten the percent-I have used this little instruage will be arrived at ment a great many times, and find that it is quite as accurate as the larger and more expensive apparatus

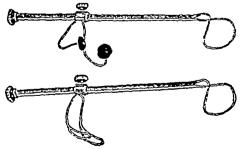
It is my custom to make about six readings, which is very rapidly accomplished, and take the mean thereof by dividing the sum of the readings by six With some practice and an eye trained for color the results come generally within $\frac{1}{10}$ of 1 per cent of the amount of sugar present. Like every other mstrument, it requires practice to get good and ac-While for those who have to make curate results many quantitative determinations of sugar in urine the polarizing saccharimeter offers great advantages I quite agree with Dr Tyson that, for single and isolated determinations, Fehling's method is quite as The general use of rapid and certain as reliable the polarizing saccharimeter together with its advantages and disadvantages, and also the preparation of the urine for that purpose, have been so fully explained by Dr Tyson, that there is nothing further for me to add

NEW INSTRUMENTS.

SELF-RETAINING PALATE RETRACTOR

BY JOSEPH A WHITE, AM, MD,

After some months of experimentation, I beg leave to submit to the profession the useful instrument represented in the accompanying cuts



The principle of its construction is so very simple, that it is strange we have not had such an appliance

Since then I have me about the middle of December used it so frequently and with such perfect satisfaction, both for the examination of the post-nasal cavity and for various operations therein, such as removal of adenoid tissue, snaring lower turbinated hypertrophies and galvano cruterizations, that I now consider it an invaluable addition to the ihinologist's For a long time back I had used armamentarium to draw the palate forward, for examination, a simple loop of silver wire, with a short rubber band which caught between the teeth when practicable, or with two long rubber loops which hooked over the ears, as less uncomfortable than passing a piece of rubber tubing through the nostrils out of the mouth, and tying it over the upper lip

The latter method I always used for operations, as more reliable and less likely to become displaced The present instrument, however. than the former does away with both methods, and is infinitely pre-

ferable to either

It is made of a square steel bar about 3 mm thick, terminating in a loop of pure silver wire heavy enough to hold the palate and light enough to be readily changed in shape by the fingers to suit each individual case, being made smaller for children and larger for a more capacious pharynx bar slides the attachment which clamps over the upper lip and holds the retractor in position sliding attachment, with two arms, requires no fixation to keep it in position, the tension being alone sufficient to make it immoveable on the square bar For greater security, however, in performing an operation, a small fixation screw is attached to the side of the slide to fasten it securely, so that facial eontortions must not displace it

As shown in the plates, I had two attachments tip made at first, one with two steel wire arms terminatin the nostrils, or on either side of the alæ of the nose, and another attachment terminating in two hard rubber buttons, which caught in the depressions a similar instrument described in the Medical Record, of Jan 14, 1881, by Dr Porcher, of Charleston

The reason of the two attachments was that I found in some cases one suited, and in others the second attachment was preferable Since the plates were made about January 1, I find the one with silver loops answers both purposes, as it can be moulded by the fingers to suit any case, just as the terminal loop of the bar which catches the palate

There is but one objection to urge against the instrument, and that is, that the bar may get in the way of operating in the right nostril, but this does not hold good if the operator is ambidextrous, and moreover, it is so small that it is not much of an ob It is applied and moved so rapidly that it can be taken away repeatedly in performing op eration to rest the patient or the surgeon perience already has demonstrated its great advantages over any known method for working in the post-nasal cavity, and I am satisfied any of my confrères who give it a trial will agree with me

A NEW ATOMIZER FOR OFFICE USE

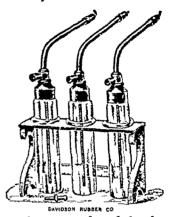
BY E FLETCHER INGALS, AM, MD,

PROFESSOR OF LARINGOLOGY, RUSH MEDICAL COLLEGE, RTC , CHICAGO

I wish to call the attention of the profession to a new atomizer for office use, that has been made at my request by the Davidson Rubber Company is known as "Davidson's Combination, No 66," by which name it can be procured through any of the instrument dealers in this city

All atomizers, thus far, have been more or less defective, but the one shown in the cut comes nearer to

perfection than any other I have seen



The spray-tube is made of hard rubber and consists of two parts, an inner and an outer The inner tube through which the fluid rises, extends from the bottom of the bottle containing the medicated liquid, to the end of the spray tube, where it is capped by a smaller movable The outer tube, which conveys the blast of air, extends from the top of the bottle, to which it is ing in silver wire loops, the ends of which caught firmly fixed by a screw thread, to the end of the instrument, where it is capped by a removable tip There are three different tips for each outer tube, which enables the physician to throw a spray either over the alveolar processes on the same principle as horizontally, at a right or oblique angle, up, down or laterally One of these tips is half an inch in length, which renders it peculiarly serviceable for throwing spray into the naso-pharynx, a place that it is impossible to reach in a majority of cases with the short tips furnished with other instruments the tips of both the outer and inner tubes can be easily removed, the tubes may be readily cleansed if they become stopped By removing the tip from the inner tube, and screwing down firmly the tip on the outer tube, this instrument will throw freely fluid cosmoline or oil, even with a low pressure, or by the hand ball

> Each of these atomizers is so constructed that it fits accurately upon the air cut off, manufactured by the same firm, and with each set is an extra attachment which enables either of the instruments to be used with the ordinary rubber hand bulb

> These instruments are put up, three in a set, in a neat little rack, and as each has three tips, the set is equivalent to nine spray tubes of the ordinary

The tubes being made of rubber, anything which

a physician is likely to employ as a spray may be used through them without injury, excepting iodine All metallic spray tubes, (excepting very expensive platinum) corrode with various solutions, and are Glass tubes are more bulky therefore soon ruined than these, are more difficult to clean, and are sub ject to a great deal of breakage, which renders them expensive, while at the same time three of them are required to answer even a part of the purpose of one of these

The spray tube itself, in these instruments, is not new, it being the same as that in Davidson's No 59, old style, hand atomizer, which, by the way, is now the best instrument in the market for the patient's use, if one is careful to order the screw top and long One of these tubes I have had in almost constant use for many years, and it is still good

I have brought this matter before the profession because I believe that we now have a much more reliable instrument than ever before, and I believe a single set of this kind would be found very valuable even to many general practitioners

For the complete outfit of a laryngologist's office nothing can surpass in utility a suitable number of these instruments, arranged in a convenient rack

No 70 State Street

FOREIGN CORRESPONDENCE

LETTER FROM PARIS

(FROM OUR OWN CORRESPONDENT)

The Muscular Force of Epileptics-Nature and Treatment of Granular Conjunctivitis—Antiseptic Treatment of Diphtheria—Treatment of Burns

At the last meeting of the Société de Biologie, Dr Féré read a note on the muscular force of epileptic From observations of several epileptics in his hospital ward, he ascertained that the muscular force of these patients, measured by the dynamometer, was less by one-fourth or one-third that of healthy individuals This is contrary to the gener-The author then wished to y received opinion rtain the modifications these muscular forces went in the different manifestations of the dis-Dr Féré noticed that frequently the "aura" with a diminution of the muscular force, e same was the case after the fit, whether complete or incomplete, as well as He also noticed that this enerally predominant in one of the and it was precisely in that side ns predominated This fact is at, and it confirms the theory of

nocturnal than after

Dr Féré more-

ho claims that the period of

ıplegia

e fit is comparable to an at-

conjunctivitis Starting from the principle of the contagiousness of granular conjunctivitis, which had been demonstrated by Sattler and other observers to be due to the presence of a specific microbe, the author advises the application of local and at the same time general treatment. The former is to be directed against the infecting agent, whilst the latter should have for its object the placing the organism in a state to resist this agent. As long as the granulations have not reached the period of organization, the author employs the glycerate of the sulphate of copper in the proportion of 1 to 8 parts once the cicatricial tissue is formed, the microbe becomes surrounded by a sort of fibrous shell which protects it against the action of the drug In these cases, after having rendered the conjunctiva insensible with cocaine, the granulations must be lightly touched with the point of a small camel's-hair brush dipped in a solution, very concentrated, of chromic The next day the small scar which had been formed will be found detached, and one is then able to cauterize the eyelids with the glycerate of the sulphate of copper which, in this manner, is put in contact with the microbe Five or six cauterizations with the chromic acid suffice to obtain a notable im-The cauterizations should be practiced provement At the same time the orevery four or five days ganism should be supported by means of appropriate remedies and substantial food Elevated positions are very favorable to the cure, as it has been observed that conjunctival granulations do not develop beyond a certain height

In the Archives de Laryngologie, Dr Legendre, writing on the antiseptic treatment of diphtheria, states that after having examined the different antiseptic remedies imagined against this malady, the author brings prominently to notice the energetic procedure adopted by Dr Soulez, of Romorantin, and which has been applied by Dr Gaucher, physician to the hospitals of Paris The principle of the treatment is to concentrate all the efforts of the physician in the destruction of the false membranes and the antiseptic cauterization of the subjacent mucous The treatment consists in the applicamembrane tion with a rather stiff brush impregnated with a saturated solution of carbolic acid and camphor in alcohol, but before applying the brush the superfluous liquid should be pressed out so as to prevent any of it falling into the larynx The brush is then vigorously applied to all the parts of the throat which are covered with false membranes, and in such a manner that as much of the latter may be mechani-The application cally removed as may be possible should be made three or four times in quick succession, without being deterred by the terrible sufferings This should be done twice caused by the operation daily until the false membranes have ceased to be In the intervals frequent irrigations reproduced with a solution of carbolic acid of 1 per cent should The absolute condition of the success ution of the musc lar be practiced of the treatment appears to be in the energy with One must not which the cauterization is practiced . Desormes chose only remove by rubbing the pseudo-membranous ent of granular layers, but the denuded mucous membrane must be

modified, and the penetration of infectious agents ham, Hunter, and Bichat into the capillaries, become gaping and bleeding by this denudation, should be prevented There is. however, one grave objection to this method and that is, it interferes with deglutition and alimentation by the intensity of the inflammatory reaction which Nevertheless the remedy, however it produces cruel, is necessary, and the medical man should really be armed with sufficient stoicism to be, as it were, callous to the sufferings of the patient was to the adoption of this energetic measure that Dr Gaucher attributes the saving of the life of a hospital interne (Albaram) who contracted diphthena for the second time in the same year at the hospital for children He very probably would have succumbed, judging from the increasing gravity of the symptoms, had not Dr Gaucher applied, in all its rigor, the method above described, and it was from this moment that an amelioration which ended in cure became manifest

In the Paris letter that appeared in The Journal in October last was given a new treatment for burns I now transcribe another from Le Monde de la Science, which consists in the application of compresses imbibed with a solution composed of from 5 to 15 grams of the permanganate of potash to 30 grams of The compresses are composed of calico and are frequently renewed The remedy is certainly efficacious, but only in congelations of the first or second degree, and in burns of the first degree all cases, it rapidly suppresses pain and removes inflammation When blisters are intact, suppuration is always prevented

DOMESTIC CORRESPONDENCE

BOSTON LETTER

(PROM OUR OWN CORRESPONDENT)

Dr Billings' Lectures on the History of Medicine

A series of eight very interesting popular lectures has just been delivered to the people of Boston by Dr John S Billings, of Washington, D C smaller than seemed warranted by the importance of the subject and by the reputation of the distinguished doctor, and particularly this may be said in regard to the number of professional men present From his long connection with the Library of the principle be fitted to investigate this subject, difficult on account of its ancient origin, its dependence on traditheories and beliefs concerning it among different nations and in different ages

by referring to the ten names arranged in two rows Indians on the front of the new building of the Harvard Medical School

All of them specially Then he said, in brief prominent in medicine While the lectures will be devoted mainly to indicating the influence which certain individuals have exercised on the progress of the healing art, it must be borne in mind that to fully understand this influence it is not enough to consider what physicians only have said or done. To attempt to isolate the history of medicine, and to comprehend its curious ebbs and flows of doctrine from medical writings only, is like cutting a narrow strip from the center of a piece of tapestry and speculating upon the origin and purpose of the cut threads and fragments of patterns that may be found in it Medical history includes much that belongs to the history of philosophy, jurisprudence, and science, the chief difference being the different names

The origin of medicine is to be explained from tradition and inference, rather than from history There are two classes of legends and opinions relating to this subject, the first, which we find as a tradition everywhere, is that medicine is of divine origin and thus it is that in early times we find the healing art in the hands of the priests and connected with religious ceremonies The second opinion includes such explanation as that given by Hippocrates, that it arose from experience of the effects of certain foods or injuries, developed at a later period as we shall see, into the doctrine of the empirics Among barbarous and wandering tribes, and among nations of antiquity, we usually find traces of two systems of medicine and of two classes of physicians, one lay and the other sacred, corresponding to the two legends referred to

Among the savage and barbarous nations of recent times, we find that the priests are usually physicians or medicine men, and are the superior practitioners who are resorted to in obscure or difficult cases, but also that there are others, sometimes women, who treat diseases with simple and natural remedies The essential remedies are incantations, steam baths, propitiatory offerings, music, noises, and the removal of the evil spirit by suction This may be seen from authentic accounts of the American Indian, among The whom medicine in general, refers to what is superaudiences that listened to these lectures were much natural or extraordinary, and the medicine man is one who possesses a knowledge and control of such matters, and in particular it may mean something like spirit, for every animate, and some manimate, objects are supposed to have their own medicine or Surgeon-General's office (U S Army) at Washington, physician, he is priest, rain-maker, and minister The medicine man is much more than a Dr Billings is fitted as no other man could possibly plenipotentiary of the supernatural powers, both good and evil In a report on the Oregon Indians, Major Alvord says "In some of these tribes any child may tions, its indefinite records, and the diversity of the be trained for the position of medicine man, but among the Nez Perces, the position is inherited from father to son " The medicine of other uncivilized Dr Billings commenced his first lecture in the series races is essentially the same as among the American

Among savage nations we meet with peculiar dis-The names in the upper row are eases in which only equally peculiar medicine is of Paré, Galen, Hippocrates, Celsus, Versalius, while service Among which may be mentioned the trances those in the lower row are Haller, Harvey, Syden- of the Cossack women and the peculiar fever found

in Abyssinia, which can only be cured by music and lating to Greek medicine, are found in the poems of remedy among savage tribes, not only in this country but in Africa and elsewhere, is curious and not the hands of the priests easy to explain, although it may possibly be connected with the animal instinct of licking a wound

In his "Folk Medicine," Mr Black points out that three explanations of disease and death appear to be prominent among barbarous and ignorant people, viz "I The anger of an offended external spirit 2 The supernatural power of a human enemy The displeasure of the dead"

The power of belief, faith, imagination, or expectant attention to affect the material organism is well known At the present day it is played upon among civilized people as the charm against warts by children, the faith cure and the consultation of mediums for advice etc

The moral of all this, first, that no opinion as to the causes of diseases, the effects of remedies, etc, can be made on a scientific foundation unless the Philip influence of belief and imagination has been carefully eliminated by careful and repeated experiments and observations, and second, it would seem that mental phenomena of the well and of the sick should be a subject of study by the physician, and that this should be remembered in planning a course of instruction for medical men

In the next lecture the use of magic was referred to in medicine, the remedies of the ancient priests consisting of charms, incantations, and talismans

The earliest medical book is known as the "Papyrus Ebers," which was found a few years ago between the legs of a mummy in the necropolis of Thebes Its date has been determined as 1552, B C, and it is believed to be, one of the so-called Hermetic books or writings which formed a sort of encyclopædia of science and philosophy, written by the priests It is a compilation of receipts derived from different sources salve is mentioned, and also a hair tonic and certain remedies for skin diseases are introduced Although it shows that medicine was essentially in the hands of the priests, yet it is entirely consistent with the statement of Herodotus, that in Egypt there are many physicians, some for the head, some for the eyes, and others for different parts of the body

It does not appear that medicine was regularly studied among the Jews as a separate profession until the rise of the Alexandrian schools

Among the Aryans in the earlier times, 1500, B C, the chief of the tribe or father of the family was physician as well as priest - As the Brahmins increased in power and knowledge, they assumed the sole charge of medicine and compiled the Ayur-Veda, a sacred The qualifications of the profesbook relating to it sional teacher were required to be of the highest order, and the course prescribed was to begin at the It was believed that there was a special remedy for every disease, but that its success depended upon the sanctity of the person who gave it, and that its efficiency would be impaired or destroyed if the formula of its composition were made known

as far as 3100, B C The first records we have re- of what was called the chemical school of medicine

The very general use of suction as a Homer, which we may accept as dating from about 1000, B C Then medicine was not exclusively in

In the next lecture reference was made to the fifth and sixth centuries, B C Then there were fifty to sixty temples of Æsculapius The chief ones being at Rhodes, Cyrene, Medos, and Cos, the last two

being the most important

Hippocrates (460, B C) was a native of Cos He was in the seventeenth generation a descendant of Æsculapius He was the best educated of his family, was a contempory of Socrates and Plato Physiology and pathology were not known at this time theory of medicine then was that of the four humus the phlegm, the blood, the bile, and the atrobile being produced by the brain, the heart, the liver, and the spleen, respectively

Plato expounded final causes

Aristotle (354, B C) taught Alexander, the son of He paid some attention to anatomy

Aulus Cornelius Celsus (Rome, commencement of the Christian era) wrote an encyclopædia which is the first medical treatise in Latin

The fourth lecture commenced with an account of the second Alexandrian school, which was a mixture of the religion and superstition of the Greeks, Jews, and Christians

The Arabs derived their medicine from Persia, which in turn got it from India and Greece first chemical treatise that we have worthy of the name was that of Geber, written about 840, A D

Avicenna (980-1036, A D) was the greatest of the Arabic writers on medicine, and for 500 years he rivalled Galen as an authority The greatest development of medical science was among the Moors in Spain when it was in the hands of the caliphs the rest of Europe at this time there was no progress There were more prayers and the kings and others of The eight means went to the Hebrews for science crusades (1095-1291, A D) had a strong indirect influence on medicine by producing a change in the mode of thinking

In the fourteenth century there occurred the famous "Black Death," from which one-quarter of the population of Europe lost their lives The medical faculty of Paris, in a special report, advanced the idea that it was caused by vapors from the sea Nearly all the specific fevers came from Europe The first special quarantine was introduced at Venice in 1485, A D, and it was for forty days, because the "crisis" was then supposed over

Paracelsus (1493-1541) wrote much but his writings are worthless, except in relation to chemistry and alchemy (magic) He had a tendency to personify and not to abstract, and he founded the doctrine of

signatures Van Helmont was a follower of Paracelsus who thought that the archeos, or creative principle was a ferment situated in the stomach which converted other things to be like itself

Sylvius was mentioned in the next lecture as being, Legends in regard to medicine in China, go back together with Paracelsus and Van Helmont, a founder Of the modern forms of the school of Paracelsus there remain three worth mentioning The first is mesmerism, also called magnetism and hypnotism The second modern result is homocopathy, founded by Samuel Hahnemann (born 1755) He said "There must be a perfect system of curing diseases easily, swiftly and surely But there are only three Disease must be remedied by possible methods something which produces in the healthy body either different effects or contrary effects, or similar effects But the use of things which produce different or contrary effects is the ordinary method, which is utterly bad and vicious, since it often kills but never cures Therefore the only remedy left is that which produces similar effects, and this, which is homeopathy, must be absolutely, invariably and exclusively true" The third modern result is the doctrine of Rademacher, which flourished in Germany about thirty years ago, and which taught that for every disease there is some specific remedy connected with it by the eternal nature of things

The eighteenth century, so far as medicine is concerned, can be separated from the seventeenth only At the commencement of this chronologically period there were three prominent medical teachers Stahl, Hoffmann and Boerhaave, each the founder of a system and for the time having great influence Connected with the animism of Stahl is another system of medicine, which flourished in the eighteenth century, known as the school of Montpellier, or more commonly vitalism The doctrines of Hoffmann were diametrically opposed to those of Stahl He did not believe that the soul is the cause of life, and he taught that the human body is a machine, complicated, it is true, and the life is a function of the organism Boerhaave took something from all the systems and theories, hoping to unite them all into one homogeneous comprehensive body of doctrine

The next lecture opened with a discussion of the relations of the physician to the State In ancient Egypt, Chaldea and India, medicine was kept in the hands of a particular order or caste This was also the case in Greece early, but we know that Hippocrates gave instruction for money In the so called Greek schools each master was a school for himself, teaching all that he thought requisite for the special education of a physician During the Roman Republic there is no record of any public medical in-From the tenth to the twelfth centuries stitution dates the foundation of many European hospices and hospitals Women physicians were first mentioned 1D 1057

The separation of surgery from medicine was in part due to the fact that surgery was looked upon as a handicraft, degrading to and unworthy of those belonging to the nobility, as the physicians claimed to do, and partly to the fact that the physicians were priests, who abhorred the shedding of Of the barber surgeons Ambrose Paré, who was born in 1517, acquired so great a reputation and so much influence as to give a sort of reflected respectability to his associates

Anatomy was spoken of in the next lecture

the Arabian schools, where the dissection of human bodies was contrary to religion, nor in the West, pigs being operated on chiefly, and there was no innovation in this custom until Mundinus, Professor of Anatomy at Bologna, gave demonstrations upon two human bodies in 1315 Zerbi, of Padua, was another anatomist of about the same time

Andreas Versalius (1514-1564) had the courage to controvert in some respects the opinions of Galen When men began to believe the evidence of their own eyes even if opposed to the statements of Galen and to the dictates of the church, the time had come for another great step in advance, the foundation of scientific philosophy by the discovery of the circulation of the blood by Harvey The old theory of Galen was that the veins arose from the liver and the arteries from the heart Sir William Harvey was born in 1578, and he announced his discovery in This marks the commencement of a new 1616~19 era in anatomy and physiology Closely following came the discovery of the absorbents or lymphatics, then the lacteals, and so on The practical side of medicine is typified in Thomas Sydenham, born in 1624, who is often called the English Hippocrates

Marcellus Malpighi (1661) Professor of Anatomy at Pisa and Bologna, was the true founder of minute anatomy Albert Haller (1708-1777), born at Berne, was one of the most distinguished men in the whole history of medicine He was the founder of modern physiology

John Hunter, born in 1728, was one of the most noted surgeons of his day, and formed the subject of the opening of the last lecture in the series was the founder of the school of scientific surgery His museum at the time of his death contained 131ooo specimens

Xavier Bichat (1771-1802) revolutionized physiology by introducing the study of the tissues instead of the organs as the foundation of anatomy, and of inquiry into the laws of life Charles Bell (1781-1842) was a distinguished teacher and writer at Edinburgh His works were well illustrated He gave his attention chiefly to the nervous system

François Majendie (1783-1858) was in many respects the contrast and complement of Bell shall Hall (1790-1857), at Edinburgh, was a lecturer on the principles of diagnosis and was a copious writer on medical subjects He discovered the reflex function of the spinal cord and the excito-motor system of nerves

Dr Billings concluded by saying "It is not every or any sort of knowledge that enables one to judge wisely in the selection of a medical attendant reason for this is the general ignorance of the history of the evolution of medicine into its best form of the present day-an evolution in the course of which nearly every possible mode of blundering and stray. ing from the true path has been tried over and over It is not by theories, but by long and patient again observation and experience that we come to know of the practice of medicine, and it is only the man or woman who has by long study, based on careful No preliminary education, mastered the results of all this advances or discoveries were made in this subject in work, who is to be trusted as your physician "

VICTIMS OF THE RECENT BLIZZARDS IN THE NORTHWEST ASPHYXIATED BEFORE FREEZING

Dear Sn —There is an amount of evidence and a combination of circumstances sufficient to show that the greater number of the several hundreds who lost their lives in the recent great "blizzard" of the Northwest perished from asphysia and not by freezing. Many of the bodies, when found, were in the position of grasping or clutching at their own necks or throats. In-door witnesses describe the atmosphere as having an appearance of density and darkness, similar to that stated by divers as existing when submerged with their armor in deep water. Many that escaped describe their peril as being from loss of breath or suffocation.

The terrific hurricane force of the wind, loaded with falling snow—the latter being by a fall of tem perature whose degree and suddenness has no recorded parallel converted into dry crystals, and thence by the gale ground to a fine dry ice-dustthese conditions produced a state of the atmosphere as unfit for respiration and aeration of the blood as is water for warm-blooded animal life The extent of the fatality resulting from this storm, also its horrors, will never be fully known For reasons evident and natural the papers of the region effectually suppress and underrate the actual truth Your correspondent, while just outside the belt of the storm's fatality, is sufficiently contiguous to obtain information and facts in verification of the views given. The remains of several resident victims have been returned to this localty for interment, persons absent upon business or visiting when overtaken by the storm

The Signal Service Office reported a falling barometer and severe storm at the same hour upon this memorable day, over an area whose extent far exceeds that of any upon its records From Montana to Cincinnati, Ohio, and St Paul, Minn, to St Louis, Mo, was the storm field, whose centre was stated as near Des Moines, Ia Here we have a cause for results as exceptional as itself Yours respectfully, H C MARKHAM, M D

Independence, Ia, February 8, 1888

BOOK REVIEWS.

THE RULES OF ASEPTIC AND ANTISEPTIC SURGERY A Practical Treatise for the Use of Students and the General Practitioner By ARPAD G GERSTER, M D, Professor of Surgery at the New York Polyclinic, Visiting Surgeon to the Mount Sinai Hospital and the German Hospital, New York 8vo, pp 21, 332, with 248 engravings and 3 chromo-lithographic plates New York D Appleton and Company 1888 Chicago W T Keener

"The object of this volume is a systematic, yet dish granular masses, which in time became larger, practical presentation of the Listerian principal that has revolutionized surgery within the last fifteen years" This object the author has been careful to may be regarded as the germ upon which Dr

keep in view throughout the whole book ume is not a treatise on operative surgery-and for this we thank the author-nor is it a collection of rules for the preparation and application of surgical dressings, of such works we have a sufficient quan-The book may be termed a treatise on operative surgical physiology and pathology, if there be no contradiction in this combination of words it may be said that the book is a series of illustrated sermons on the text The surgeon's act determines the fate of a fresh wound, and its infection and suppuration are due to his technical faults of omission and commission And this text is elaborated in the fullest possible manner, but without unnecessary repetition or verbiage, and without any attempt to prove what are now to be considered self evident propositions in surgical treatment. The book is not written for those that blindly cavil at Listerian principles, that would be indeed labor lost. It is full of instruction, but meagre of controversy

The primary healing of a fresh wound is now to be looked upon as a matter of course rather than as a curiosity or a piece of "good luck" Surgeons that have accepted and acted upon the great Listerian principle have now reached the solid ground of asepticism, which lies a step beyond the equally solid ground of antisepticism. And it is since they have established themselves upon the firm basis of asepticism that they have seen their scope of work widen into fields into which formerly it was dangerous to step. With this extension of the safe ground of surgery there has been a fruitful development of operative technique

We have said this much for the purpose of showing the design and scope of Dr Gerster's excellent book without copying the table of contents, and without quoting extensively from the pages of the book And if the reader will broaden his conception of the meaning of the title of the work, until the words "Aseptic and Antiseptic Surgery" imply to him all that they can possibly mean, he will have an idea of the object and scope of the work, but until he sees it he will have but a limited idea of its value. The vast majority of the illustrations are made from photographs, and convey an accurate idea of what they are intended to show. W G E

NASAL POLYPUS with Neuralgia Hay Fever, and Asthma in Relation to Ethmoiditis By Edward Woakes, MD, Surgeon to the London Throat Hospital, etc. With Illustrations 8vo, p x11, 140 Philadelphia P Blakiston, Son & Co 1887 Chicago W T Keener

This book is the outcome of a series of investigagations that the author has been at work upon for several years. Starting from the observation that in some cases of ear disease there was a catarrhal accompaniment in the nose, that the middle turbinated bone frequently became enlarged, and that the swellings gradually put forth from their surfaces reddish granular masses, which in time became larger, he noticed that these superficial granulations showed a tendency to develop into mucous polypi. This may be regarded as the germ upon which Dr Woakes has built up his theory and his book. Two years ago he published as much as then rested on what he considered a firm clinical and pathological basis, and while his views have found objectors, the facts presented have not been contravened

A useful suggestion for nasal surgeons is the blank diagram for indicating the condition of the nasal

fossæ, from anterior and posterior aspects

One cannot read this book without being impressed with the facts that the author writes from careful study and rich experience, and that if he has not unearthed the truth he has at least come nearer to it than any other writer on this subject

IRREGULARITIES OF THE TEETH AND THEIR TREAT MENT BY EUGENE S TALBOT, M D, D D S, Professor of Dental Surgery in the Woman's Medical College, Lecturer on Dental Pathology and Surgery in Rush Medical College, Chicago With 152 Illustrations 8vo, pp \(\chi -163\) 1888 Philadelphia P Blakiston, Son & Co, Chicago W T Keener

It may be safely predicted of this book that it will be very favorably received by those members of the dental profession that look upon their profession as a "science and art" and not as a mechanical trade. In the first part of the book the anatomy and physiology of the irregularities of the teeth are considered. The second part is devoted to the various means and methods of treating irregularities. The book is written in a concise style, is well printed, and profusely illustrated.

ASSOCIATION ITEMS

Programme of General Sessions of the Meeting of the American Medical Association to be held in Cincinnati May 8, 9, 10 and 11, 1888

The General Meetings will be held in the Cincinnati Music Hall and the Sectional Meetings in adjoining rooms in the same building

FIRST DAY, MAY 8, II A M

Meeting called to order by Dr W W Dawson, Chairman of the Committee of Arrangements

Prayer

Address of Welcome

Announcement of Programme of entire Session Annual Address by President A Y P Garnett, of Washington

Call for volunteer papers and their appropriate reference

New and miscellaneous business

Notification for the appointment of the Nominating Committee

SECOND DAY, MAY 9, 10 A M

Report of Committee of Arrangements Address on General Medicine, by Professor Roberts Bartholow, of Philadelphia

Annual Report of the Board of Trustees, by J M Toner, M D, Chairman Report of Special Committee on Dietetics Consideration of proposed amendments to the Constitution

Announcement of Nominating Committee

THIRD DAY, MAY 10, 10 A M

Report of Committee of Arrangements Address on General Surgery, by E M Moore, M D, of Rochester

Report of Committee on Rush Monument, by A L Gihon, M D, Chairman

Report of Treasurer, R J Dunglison, M D
Report of Librarian, C H A Kleinschmidt, M D
Report of Committee on Necrology, by J M
Toner, M D, Chairman

FOURTH DAY, MAY 11, 10 A M

Report of Committee of Arrangements Address on State Medicine, by H P Walcott, M D, of Boston

Final Report of Nominating Committee
Report of Standing Committee on Meteorological

Conditions, by N S Davis, M D, Chairman Report of Special Committee on Criminality of

Fæticide and Measures for its Prevention Report of Special Committee on Duties commonly exercised by Coroners

Reports of Secretaries of Sections New and miscellaneous business

The Sections will meet each afternoon at three A fuller programme, including a list of papers to be read at the Sections, will be published about April 7

NECROLOGY

EDWARD FLINT, M D

Dr Edward Flint died May 30, 1880, in Leicester, Mass, the place of his nativity He was descended from an honorable ancestry, the first record of the family in this country being of Hon Thomas Flint, who came from Derbyshire, Eng, to Concord, Mass, m 1638, "possessed of wealth, talents and a Christian character" From him presumably come all of the name in this region His great-grandson was Dr Edward Flint, who located in Shrewsbury, Mass, in 1756, a surgeon and physician of repute in his His son was Dr Austin Flint, who at the age of 17, was a soldier in the Revolutionary army, subsequently toward the close of the war, a surgeon stationed at or near West Point, and present at the surrender of Burgoyne He had two sons who were physicians, Joseph H and Edward, the subject of this notice The former was father of the late Dr Austin Flint, of New York

Dr Edward Fint was born in Leicester, where he lived and died at the age of 90 years and 6 months. His medical life extended over a period of more than half a century, during which time it was said of him, "that he was known to every man, woman and child around, trusted in his profession, and respected as a man to an extent rarely exceeded." He never sought public distinction, but made the

careful discharge of professional duty the chief object of life, and pursued it with conscientious fidelity, regardless of personal comfort, till compelled by the infirmities of age to relinquish

He was a life-long member of the Massachusetts Medical Society, at one time its Vice-President, and for many years one of its councillors likewise an early member of the American Medical Association, from 1848, retaining membership therewith for many years plexy, quite speedily proving fatal

almost unique, I believe, which is, that the late Dr Austin Flint, of New York, and T S Flint, of Massachusetts, make the fourth generation in successive line from the first Edward Flint, who have followed the medical profession, while the present Dr Austin Flint, of New York, is the fifth

EDWARD BARTON, M D

Edward Barton, M D, was born in Orange, Mass, Feb 5, 1803, and died at South Orange, May 7, 1880, He was the son of Pearly Barton, at the age of 74 MD, and direct descendant of Samuel Barton, of Colonial times, who in 1690 resided in Framingham, He was chiefly a self-educated man, though he attended the district school, and later the academies of New Salem and Deerfield He studied medicine with his father, and attended lectures at Pittsfield, Mass, graduating first in his class, according to the testimony of Professor Parker, at Woodstock, Vt, 1831, at 25 years of age His expenses he paid by teaching school, winters

Commencing practice at Sullivan, N H, after four Here he remained years he returned to Orange three years, when he went to South Orange intellectual capacities were of a high order, he had keen perceptive faculties, was investigating, discriminating and a hard worker His judgment was remarkably good, his convictions firm, he was honest, kind and courteous to all, the welfare of his patient was always first in his mind In consultation at the bedside, all looked with confidence to him and valued his decision

He became a member of the American Medical Association in 1858, and attended meetings in 1860, 1863 and 1865 Since 1841 he was a member of the Massachusetts Medical Society, and since 1852, a member of the Franklin County Society, holding office in each, was President of the latter Society in 1860 and 1861, was honorary member of the Worcester North Medical Society and was one of the founders and the first President of the Miller's River Medical Society

MISCELLANEOUS.

COOK COUNTY HOSPITAL, CHICAGO PUBLIC EXAMINATION TO FILL VACANCIES IN HOUSE STAFF

Notice is pereby given that a competitive examination will be reld at this institution March I and

2, 1888, for the purpose of selecting eight physicians to act as Hospital Internes

The examinations will be in writing and upon the following subjects (1) Anatomy, (2) Physiology, (3) Materia Medica and Therapeutics, (4) Chemistry, (5) Practice of Medicine, (6) Surgery, (7) Obstetrics and Gynæcology, (8) Pathology, (9) Ophthalmology and Otology

By resolution of the Executive Committee of the His death resulted from apo- Medical Board, candidates must be graduates of a regular medical school recognized by the Illinois There is one fact in the history of this former State Board of Health or within four (4) months of graduation from such a school

Denslow Lewis, M D, Secretary of the Medical Board

NEW YORK STATE MEDICAL ASSOCIATION—Fifth District Branch -The next meeting of the Fifth District Branch will be the fourth annual meeting to be held in Brooklyn, on Tuesday, May 22, 1888 There will be a morning and an afternoon session All Fellows are solicited to contribute to the meeting, either by reading papers, notes or communications, or by exhibiting specimens All papers offered are the property of the Branch, and will be published in a current medical journal The Secretary desires to be notified of the title of any paper to be offered as early as convenient

E H SQUIBB, M D , Secretary P O Box 94, Brooklyn

Professor Asa Gray, the distinguished botanist of Harvard, and one of the best known scientists in this country, died on January 30, at his residence in Cambridge, Mass, at the age of 78 years Dr Gray was a graduate in medicine, but after a very short experience in medical work entered upon the study of botany and became, perhaps, the most distinguished of Ameri can botanists

NEW BOOKS RECEIVED

The Rules of Aseptic and Antiseptic Surgery A practical treatise for the use of students and the general practitioners, by Arped G Gerster, M D Illustrated with 258 engrav ings and three chromo lithographic plates D Appleton & Company, New York

Transactions of the Ohio State Medical Society, 1887

The Rectum and Anus, their Diseases and Treatment, by Charles B Bell With 54 illustrations and 4 colored plates Philadelphia Lea Brothers & Co

Transactions of the American Dermatological Association at the eleventh annual meeting held in Baltimore, 1887

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM FEBRUARY 4, 1888, TO FEBRUARY 10 1888

Major Jno H Janeway, Surgeon, Capt Wm E Hopkins, Asst Surgeon, detailed as members of the Army Retiring Board in San Francisco, Cal, convened by S O 168, A G O, July 22, 1886 S O 28, A G O, February 4, 1888

CORRIGENDA

HYDROFLUORIC ACID IN PHTHISIS —In the letter of our London cor respondent, published in The Journal January 14, 1888, directions are given to pass a current of air "through a fluid composed of 100 grams of hydrochloric acid and 300 grams of distilled water." Of course the name "kydrochloric acid" should have been kydrofluoric acid instead, as the context clearly indicates

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

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No. 8.

ADDRESS

THE IMPORTANCE AND ERADICATION OF SYPHILIS

Delivered before the Rocky Mountain Medical Association, June 5, 1887

> BY HORATIO R STORER, MD, OF NEWFORT R 1, PRESIDENT OF THE ASSOCIATION

LADIES AND GENTLEMEN OF THE ROCKY MOUNTAIN MEDICAL ASSOCIATION

In accepting the honor that you so kindly conferred upon me at St Louis, the Presidency of our Association for the present year, I had hoped that I should be able to attend the Chicago meeting, for I appreciate your courtesy and fully share in your desire that the annual convocations of those who crossed the continent together in 1871, should increase in interest the nearer we approach that final passage into an unknown country that is before us all, and from which there is no return

It seems to me that the older we become, self limited as is our organization, and by its constitution unable like almost all other societies to take into itself any new or younger life, the more incumbent it is upon us to appreciate that each year our circle, already so limited through the decease of valued associates, contracts still closer upon itself, and thereby we are pressed into a more intimate companionship with each other, a nearer touch Besides this, increased sense of mutual sympathy and support that we possess as the effect of the tie of close corporationship, which is to be broken only by the decease of the last survivor of our number, that there are duties, correlative to the occasion that first united us, and as peculiar responsibilities to be measured only by the opportunities of exerting a deep public influence, that are yearly our own through our connection with the American Medical Association, as an integral part of its history

The trip to California, pleasureable and health giving though it was to all of us, was undertaken for a more serious reason, and produced a weighty To many of us it was attended by much inconvenience and to all no slight expense, in both respects fully equalling indeed a summer's trip to The journey was in truth a mission, to

Association to a portion of the country that, rich as it might be in natural wealth, was yet in the regard referred to, virtually a professional wilderness Practitioners there were there in abundance, graduates from the chief schools abroad as well as from our own, and already they had rival medical colleges and even journals But as a whole, the physicians of the Western Coast were dissociated from each other. personal feuds were intense, empiricism was aggressive, and associative efforts for the common welfare were as yet limited, if not almost unthought of The City and County Hospital of San Francisco was already known as affording remarkable facilities for studying affections depending upon the peculiar physical characteristics of the State and its still more novel mercantile and social as well as climatic phenomena Mountain fever was to be found in its wards, no less than all the major aneurisms, while at the Insane Asylum at Stockton, which I visited with Dr Scott, of San Francisco, there existed under Dr Shurtleff's wise classification, an abundance of, to us of the East, unusual mental aberrancies There was at once a fertile field for our study, and a rich realm for us to assist in bringing within the influence of the National Association

The hearty reception that we received from our professional brethren, the cordial welcome from State and civic authorities, and from all the people to their private homes, is still as fresh in our minds as though it were but yesterday, and we are all conscious that while as a body the American Medical if more perfect union should give greater strength, Association left its impress for good upon the State to each as to all, we ought, I think, to feel with the of California, we ourselves without exception became subject to influences which not only freshened our spirits and expanded our ideas, but opened our very selves to ways of thinking, to aspirations, charitable judgments, and tender and affectionate relations with that people of the far West, which we shall all carry with us, enduring and undimmed, throughout our

Most intimate, however, of the ties that we then formed, warmest in sympathy and fraternal interest, because shared in by each and every one, is that of the members of our circle with one another joys of each there should be a general participation, in the sorrows of each a common grief Greater still is the influence felt when an occurrence of importance affects us collectively and as a whole It is, therefore, with heartfelt emotion that I have to announce to you the recent decease of our most venerable assoconvey the influence and authority of the National ciate, our patriarch, Dr John Wadhams Russell, of

Mt Vernon, Ohio, who died on March 22, 1887, in read a paper upon some matter within its scope, at his eighty-third year, at his home

Dr Russell was a successful practitioner, especially as a surgeon, and was noted for his skill in removing vesical calculus Indeed it was said of him by our biographer, Dr Toner, that "he had performed as many, if not more, capital operations than any inland town surgeon in Ohio "Repeatedly offered a college chair, he preferred the less prominent but no less responsible duties of private life He had studied his profession in South Carolina, at Yale College, the Berkshire Medical College, and at the Jefferson, in Philadelphia He was, therefore, nullius addictus jurare in verba magistri, but from having been taught by numerous instructors, he had received a broader impress He was a member of the Medical Society of Knox County, Ohio, of the State Medical Society, since its organization, and its President He had been President of our own Association during its eleventh year, 1881-2, and delivered the Anniversary Address at St Paul He had also acted as President at the annual meeting of the previous year, at Richmond At the meeting of 1883, at Cleveland, he is recorded as having made very impressive remarks, during which "as the most aged member of the Association, he dwelt upon the uncertainty of life, and the possibility of his soon being called away from his labors, and he admonished all to be ready for the great summons" which he has now, full of years and of honors, himself in person answered brief but feeling notice of the deceased was given by our Ex-President Davis, in The Journal of the AMERICAN MEDICAL ASSOCIATION, for April 2 last

(page 381), and in the same journal for April 9, there

were printed the obituary resolutions of the Knox

County Medical Society, concerning their late mem-

sketches of Dr Russell will be found, by Dr Wm B

Atkinson, Permanent Secretary of the American

Medical Association, in his volume upon the Phy-

sicians and Surgeons of the United States, Philadel-

phia, 1878, p 242, and by our colleague, Dr Toner, in his work upon the history of our own Association,

pages 346 to 349 A good man has fallen We shall

ber (loc cit page 419)

Interesting biographical

ever cherish his memory May he rest in peace In seriously deliberating what I should speak to you of upon the present occasion, it was clear that my topic, however I might select it, should be at liver it an address upon "Female Hygiene" This least connected with our Rocky Mountain pilgrimage It was as evident also to me that my subject should be of equal importance with our then mission, and though to offer you such, instead of mere reminiscences of our pleasant travel together, but increases the difficulties of my task, I have felt that in your behalf I had no right to evade the responsibility, lose the opportunity, or make light of the important duty, each of which considerations, as I have already said, is at our annually decreasing gatherings peculiarly incumbent upon the members of the Rocky Mountain Medical Association

mined in my mind, I received from Dr Rohé, Chairman of the Section on State Medicine, of the American Medical Association, the request that I would "equally to the married and unmarried, and so gen-

the Chicago meeting, and though I replied that to do so in the usual manner was impossible, so completely was my time occupied by the preparation of a paper for Dr Bell's Santarian, upon the "Medals, Jetons and Tokens illustrative of Sanitation," a second chapter of the series that I began by the "Medals of Obstetrics and Gynæcology," published in November and December last in the New England Medical Monthly, as a part of my proposed work on the "Medallic History of Medicine," Dr Rohe's letter has yet settled my decision regarding the topic I Old men and aging women, should present to you as are we doctors and doctors' wives of this Association, have a valid right to give counsel It is for our children in the profession to carry our views into practice The higher and more universal our theme. the greater its claim upon their attention and assis-

In asking your attention, therefore, to a brief statement of the permanent importance and progressive eradication of that bodily disease, by common consent acknowledged as the worst of all, I am recognizing the constantly increasing tendency of our profession towards preventing both public and private pestilence, which for a thousand reasons is so much better than permitting their foothold and then in vain, per-In what I shall say, I am haps, attempting a cure virtually still further developing a paper that I read to the American Medical Association in 1878, and was published in its transactions, and I am securing your cooperation in a movement for the protection of Society from injury as fatal to its health and indeed its existence, as it is destructive to its morals You will find, I trust, that repulsive as is the subject, it is yet one that can legitimately be brought before a refined circle like that of even our own lady members without any violation of propriety, and be quite sure to awaken them to take part in the preservative crusade to which Gross, Marion Sims and Gihon have given so great vitality

That my choice of subject is singularly appropriate for your consideration will be evident for still another In addition to the motives that we had in reason common for our transcontinental journey, in my own instance there was still another I had been invited by the State Board of Health, of California, to dewas given, and perhaps attended by some of those now present, at the State House, in Sacramento, on April 28, 1871, and repeated, by request of the physicians of San Francisco, in the latter city upon May 25 In the course of that lecture, which was published in the First Biennial Report of the California State Board of Health (1871, appendix, pages 1 to 17), I alluded with some warmth to a statement that had appeared in the Transactions of the Third Session of the Medical Society of California It ran as follows "In no place of civilization do the causes (of ill health edical Association

While the subject of this address was still undeterin California." These causes, it was claimed, were This applies," it was further stated,

chiefly "the yielding to the seductive allurements of dissipation

eral is it that I believe," said the writer quoted, "that if we consider what is seen in the naval and mercan-I am correct, when I estimate two in every three females (in California) who have reached 15, to be victims of this dissipation" (Loc cit, 1858, p 133)

In reading this statement, and in carefully re-reading it, it seemed to me that it could mean but one thing, and such was the impression of others whom I I therefore stated in my address at Sacramento that I thought that though the remark referred to had been written by a gentleman who lived upon the spot, it must in the very nature of things have been unintentionally greatly exaggerated referring to the matter at all gave rise to extremely great offense, and I was bitterly criticised by the radically misunderstanding their drift Though it seemed to me at the time that in neither of these respects could I have been in error, I yet cordially regret at the expiration of nearly twenty years that I wounded our friend's feelings without intention, and frankly admit that had I then known what was afterwards claimed, that the apparently very plain and direct language of his paper referred only to the late hours, the dancing parties, and if within bounds innocent amusements which we do not always hesitate ourselves to permit to the young people of our families, I should have refrained from comment writer of whom I have spoken holds deservedly high rank in our profession both at home and abroad as a gynæcologist, and I am sorry that I was ever the means by so carelessly touching the self-inserted thorn, of causing him a moment's torture

As a fitting sequence to what I have now said, I may mention that remaining in California long after most of our companions had returned to the East, no less time indeed than until the following October, I had abundant opportunity of studying the question that had thus early presented itself to me admitted professionally into the families of many of the men of 1848 and 1849, which would have been the most likely of all to have suffered in the way indicated, I visited with the late Dr Logan, of Sacramento, at that time Secretary of the State Board of Health, and subsequently President of the American Medical Association, the Chinese bagnios of San Francisco, at the request of the Governor of the State, and made careful inspection of their inmates, and I had abundant opportunities of observing the private cliniques as well as hospital practice of my medical friends, and I was as astonished at the general good health of the people as regards specific hereditary infection, as I had been when visiting the Chinese quarter, at the vital tolerance shown by the opium drunkards

In nothing is the conservative force of Nature, in protecting the race as a whole, evinced more clearly than in her way of eliminating constitutional taints and impurities, alike by precipitating them downwards into the grave, and upon the other hand by throwing them off as froth thro' intermarriage with a healthier strain Were it not for this, the race would by this time have be-

tile marine of this and other countries claim that there are hardly ten seamen in one hundred who earlier or later in life have not exposed themselves to specific disease A very large proportion become affected, and yet, thanks to their good constitutions and good treatment (though often with no treatment at all, or even the very worst), how very few, comparatively, of sailors' wives and children are found constitutionally diseased The evidence of specialists in specific disease, and of dermatologists, all goes to show that there is a terrific leaven of the kind at work in every community They, of necessity, can take but a pessimistic view as to the future Face to writer in question for transferring his assertions from face with the sources of infection, presented to them the oblivion of a strictly professional annual, and for from distant localities, for such cases naturally consult a physician as far away as may be possible from their own places of residence, syphilographers may well declare the human race but one foul sink us hope that the gloomy anticipations of its possibly becoming such, may never be realized

Equally, however, do many of those who take a more comprehensive, because more distant view of this endemic plague of civilization, agree with the observers who study the body politic as though really with the microscope One can hardly take up a medical journal at random without being confronted with this spectre that will not be allayed Most forcibly is the whole question presented in a very recent number of the Sanitarian, by Dr C E Beardsley (Loc cit March, 1887, p 205), and as an immediate result, we find his State (Ohio) Sanitary Association unanimously recommending the passage of a law that syphilis should be made a legal bar to marriage

(Ibid, p 280)

In my own paper upon "The Frequently Gynæcological Origin of Inherited Forms of Strumous Disease," to which I have alluded as having been read before the American Medical Association in 1878, I drew attention to five points relative to the main question, four of which are of a general bearing, but the fifth strictly gynæcological These conclusions, then for the first time apparently so plainly stated, have not been challenged

They are as follows

1 Syphilis, like other toxemias, is more proven to become constitutional in a strumous than in a perfectly healthy subject

2 Struma, the result of syphilis, especially if from inheritance, though confessedly not uncommon, is comparatively seldom recognized as such during life, and still more unfrequently does it receive appropriate treatment

3 Syphilitic struma, personal or by heredity, is in no sense self-limited

4. The predisposition to syphilis by heredity (a very different thing from its inheritance), is both of itself and as affected by strumous and other antecedent dyscrasia, much more frequent and intense than is generally supposed

5 The transference of primary syphilis being sometimes made by perfectly healthy women who are come so generally impaired as to be corrupt, physically, themselves entirely free from specific disease, this is through and through, but we may well take comfort an element not to be overlooked in the discussion of syphilitic struma, as it bears vitally upon the questions, who are most prone to receive infection, how the virus is propagated, and in what way to attempt to restrain the spread of venereal disease

more than thus indicate the very practical directions forma in which, following these suggestions, both sanitarians and therapeutists may successfully move me to say, however, that while I am writing, corroborative evidence of their importance has been furnished by Dr Wm Henry Porter in an article in the N Y Medical Record, summarized in the St Louis Medical and Surgical Journal for April 1887 Dr Porter discusses the "Etiological Significance of Syphilis as a Factor of Disease in connection with Pulmonary Lesions," and among his conclusions are these The pulmonary lesions attributable to syphilis are quite common, more so, however, in females than males The disease is as frequently inherited as acquired The lesion is most often at the apex, and generally that I may get suggestions that will aid me in the involves both lungs Cavities are found, and the future changes are phthisical in so far that there exists progressive consolidation, followed by softening and the cold and extreme heat of Dakota, is liable to many formation of cavities The ultimate results of a case depend a great deal upon early recognition, before grave organic lesions have occurred

There is reason, as I have said, to believe that the strumous diathesis renders the development of syphilitic phthisis, through direct or inherited infection, more likely to be determined There is equal reason for the supposition that the occurrence of this latter will intensify the strumous taint—or at least evidence is as yet lacking that such is not the case ever direction this may be at last determined, my own deductions will still prove true, namely

I That the more completely we prevent (by wise sanitation), control (by intelligent supervision), and perhaps cure (in certain cases by specific treatment), phthisis and other forms of strumous disease, to such an extent do we limit the probable infectious propagation and intensity of syphilis

2 Similarly, the more actively we endeavor, by public and private measures other than those now indicated, to absolutely eradicate syphilis from any community, to such an extent do we limit the occurence, personal and by inheritance, of the various forms of strumous disease.

3 A fortiori, and even to a greater extent than has as yet been or can be effected by governmental or private attempts to control venereal disease by examining for or treating its primary lesions, by thus removing from our midst a large moiety of the material upon which the disease has thus far subsisted, we may hope eventually to get it under control

What I have now said, and the many practical thoughts to which it cannot fail to give rise in your minds, will be considered, I trust, to suffice for the present occasion Brevity is universally conceded to be the soul of wit without tiring you, I have indicated a direction in and not infrequently at the base which, whenever occasion may permit, you may con- itant râles are distinctly heard scientiously throw your whole influence towards aid- tough mucous character, and often frequent and coing the suppression of the fearful malady which per-pious hæmorrhages are present vades the community under the least suspected a case in which there was any evidence or history of

guises, and in quarters where its existence would never for a moment be imagined

My task completed, I have to wish health, long life and happiness to you all, and many future pleasant I shall not at this time and in this presence do reunions, perhaps some day even once more in Cali-

ORIGINAL ARTICLES.

MEDICAL WORK AMONG THE SIOUX INDIANS

Read before the Dearborn County (Indiana) Medical Society, September 25, 1887

> BY FREDERICK TREON, MD, PHYSICIAN TO CROW CREEK AGENCY

I desire to give a brief outline of my work and experience among the Indians during the past year, hoping it may prove of interest to the profession, and

The Indian, from constant exposure to the severe diseases, often sleeping, when the mercury registers 40° below zero, on the cold ground with only a thin tipi for shelter and a dirty blanket to wrap up in, while during the summer, when the temperature reaches the extreme height of 120° F in the shade, he exists upon the commonest food, often gorging himself with the native buffalo berries, plums, and choke cherries, and drinking the vilest water imagin-

Consumption and Scrofula — The first diseases to which my attention was directed, when I reached the Agency, were consumption and scrofula the cases treated 87 have been of consumption and 30 of scrofula Out of 57 deaths, 40 were from consumption, 4 from scrofula, and only 9 from other diseases, while 4 were accidental Thus it will be seen that about 7 out of every 10 are dying from consump-In my experience it has been the exception to find among the Crow Creek Indians—who are of the great Sloux tribe, and known as the Yanktonia Sloux -a good healthy subject I find, basing my belief on the death-rate for the past year, that in less than another century this particular band of Indians will be extinct, and so far as they are concerned the great Indian problem will have been solved

Consumption among these people appears, in the adults, always to follow an acute attack of bronchitis or catarrhal pneumonia, while usually the first symptom to which your attention is called in the child is a looseness of the bowels amounting at times to dys-The child grows weak, becomes emaciated, entery and often refuses food, while at other times it pos-At first the mesensesses a most ravenous appetite tery alone appears to be affected, but later on a cough sets in, dulness on percussion is perceptible I shall have done my duty if over one and sometimes over both lungs, at the apex Mucous and crep-Expectoration of a I have yet to find

I have never seen them have a chill symptoms I have described are not always present The patient sinks rapidly and dies from asthenia While the Indian is a patient sufferer, and possesses unlimited courage and fortitude, yet he dies very suddenly and when you least expect it

phthisis pulmonalis I do not consider my experience sufficient to warrant me in saying this will not happen, but my observation for the year supports the

Syphilis and Gonori haa —That these people are inoculated with some specific poison one cannot question, a disease that is hereditary and may have had its origin in syphilis, and yet I have my first case of an acute attack of that disease or of gonorrhœa to see among them-a most noteworthy fact

Pneumonia —During the spring of the year these people have a great deal of pneumonia and the mortality is heavy It is not an uncommon thing to see the women, when winter is breaking, sitting in the

water or rolling in the melting snow

form, and often of a violent type, not infrequently terminating in ulceration and opacity of the cornea I have had as many as 50 cases under treatment at From the tainted condition of their blood the disease is often obstinate and difficult to manage I have a case under treatment now, in which a girl, Maggie Moccasin, was sent home from the Wabash School, in Indiana, as incurable and hopelessly blind The child aroused my sympathy from the fact that she was, aside from being a very bright child, able to speak very good English I found her in a miserable, dirty hut, unable to cross the floor unless led I tried to get her into the school so that I could treat her, and to this I obtained the Agent's consent, but there were were a great many objections to this and the idea had to be abandoned At last I found a helper in the Rev Mr Burt, the Episcopal missionary, who, with his good wife, took her into their home and provided the child with every comfort and attention possible She had complete opacity, with slight of the cornea At first I thought I should perform iridectomy and make an artificial pupil for the left eye, but concluded to try treating the eyes, first with a 4 per cent solution of atropia, and later with the yellow oxide of mercury ointment, giving her at the same time full doses of the syrup of iodide of iron I can say that the results from the long and patient save the limb only has the right eye cleared up, but the left has also been very much reheved and greatly improved The child now sees to thread a needle and is beginning to read

From the long severe winters I have seen a great many frost bites I have seen any number of them with their cheeks frosted, and have treated a great many cases of frozen feet and hands

very peculiar and annoying ulcer that is very common among these people, and that I have never seen anywhere else The first symptom is a severe pain, usually located upon the extremities, a circumscribed pain over a spot not larger than a nickel This lasts for about forty-eight hours, when you can feel very I have noticed that patients that have enlarged distinctly a small hard substance like a shot, deep glands and scrofulous sores do not, as a rule, have down in the tissues, very similar to that found in About the third day there is a slight flush small pox on the surface, then a small blister appears, which is always superficial, on the second or third day after the blister appears it breaks down, and a number of others appear in the same locality A thin sanguineous fluid is discharged, and the blisters consolidate and form one large but superficial ulcer After a few days resolution commences, healing over without leaving a cicatrix One person may have these for a long time, when one crop heals, another appears I have met with the best results in the treatment of this trouble by using an ointment made of the oil of cod, with an alterative given internally

Schools — The schools of Crow Creek and Winnebago Reservations are now in full operation, with Eye Diseases—Conjunctivitis appears among the good sanitary surroundings. We have a boarding-Indians in the spring and autumn in an epidemic school at the Agency, a Catholic Mission 18 miles northwest, just completed at a cost of \$20,000, and Miss Grace Howard's Mission, now nearing completion, is located twelve miles southeast from the Agency This school is under the Episcopal Church, but erected by Miss Howard It will be for returned Hampton pupils These schools will accommodate The Indian child does not learn about 400 children so rapidly, as a rule, as does the white child, but surely a good work is being accomplished, a work that will tend more to civilize these roaming, restless people in the future than any other one thing work in the schools has been the most successful, there the patients are directly under the care of the whites, and directions are carried out to the letter, but it is in the schools that I have found diseases in

their epidemic forms

Surgery —I have not found a great deal of surgery to do, but desire to mention one or two cases that have interested me One was a case in which a young Indian driving a reaper stopped to fasten up staphyloma of the left eye, while the right eye had the trace of his inside pony. He neglected to throw almost a complete opacity, yet there was no bulging his machine out of gear and, the flies being bad, the ponies started, he was caught in the sickle and his right leg nearly severed at the junction of the lower and the middle third, the fibula and tibia were both badly cut and mangled At first I thought that nothing short of an amputation would save him, but concluded to be conservative and make an effort to I had to treat him in a tipi on a bed use of these remedies have been most gratifying, not made on the ground, this, however, was not a disadvantage, as it afforded him good hygiene I made for him a rather ingenious arrangement in the shape of a camp stool for the limb to rest in This allowed of a free circulation of air under the injured member, gave excellent drainage, and at the same time made an admirable cushion I used simply a wash of carbolic acid, and kept the limb in good position by means of side splints I visited him often to see Ulcerous Affections -I next desire to mention a that the wound was kept clean and to look after his

condition generally I removed a number of small never see one so bad as this spiculæ of bone, but the wound healed kindly and more of a large fish than of a human being bony union took place by a provisional callus After nine weeks of confinement I put on a brace and have with lice, both head and body I have not infrehim on crutches I predict for him a fair limb and I am gratified with the results

Malignant Disease -I have met with but one malignant or cancerous tumor, and that was in a halfbreed at Lower Brulé He was under the charge of Dr J B Graham, the Agency physician at raw meat they have enormous tapeworms, as well as that post The disease was located upon the right lumbricoids and ascarides shoulder and neck We operated upon the patient a few weeks ago The doctor first destroyed what retain their native "medicine men," who are the he could of the growth with chloride of zinc and most remarkable frauds imaginable. They treat their other caustics of an anæsthetic, using the A C E mixture, after and singing or chanting a most dismal song, which is which we cut away all we could with scissors we scraped out the extensions with a sharp curette, Sometimes, however, they do administer remedies after which we used the thermo-cautery at a white I remember a case of conjunctivitis that fell into the heat, cauterizing the entire surface. After this Dr hands of a "medicine man," who treated the eye by Graham used a dressing of chloride and oxide of putting brass filings into it. You can easily guess the

in general health

skin, with a very smooth surface and soft texture, which, from a lack of cleanliness, with their tainted condition, renders them highly susceptible to skin and ichthyosis are often found among them after I arrived at the Agency I was called to see tain diseases, or a certain herb will cure when admin-"Skunk Robe," an Indian who was suffering with istered by him Then the man gets up and, with a He told me he had been afflicted for some time He was covered in places with scales, localized on flag, red or yellow, which is to communicate with the the lower extremities and breast He was quite old | Great Spirit, the sun or the moon, and is the fulfilling and a very devout Christian I gave him internally of a promise made by the "doctor" to the Great cod-liver oil and, contrary to the advice of some au- Spirit, for which he is to receive in return the restorthors, Fowler's solution tar ointment and instructed him to keep clean and He went to his home on Crow Creek, about seventeen miles from the Agency, to which I frequently drove to see him On my first visit to his home I found the disease very greatly aggravated and every imaginable space on his body covered with a dry, haish, non-perspiratory, scaly, ill-nourished skin, showing the dark peculiar caking upon it so diagnostic of his trouble Even the soles of his feet, as well as the crown of his head, were a mass of huge them gets very sick they have a medicine feast, and I found him in a miserable old hut, dirty and illy ventilated, lying upon a cot too utterly dirty and filthy to describe I learned that he had been in the habit of going out naked and rolling and bathing in To me the case was a most remarkthe cold snow able and interesting one, and I made that long drive a number of times to see him I believe that if I could have succeeded in tiding him over until spring I might have, with the aid of a well ventilated tipi and the pure fresh air, at least afforded him some relief, but a new complication, in the nature of an acute it again, no matter how good it is I recall three attack of bronchitis, set in, due, no doubt, to the snow instances in which this happened. They usually bury hather and he does not be the snow instances in which this happened. bath, and he died I have to regret that I could not their dead in the ground, though some of them are have brought him, with so rare a disease in such an placed on poles or in the trees, while others are set aggravated form, before you, for you will doubtless on the hills Where a coffin is used they come for

He reminded one

Parasites - These people are constantly loaded quently seen the women "lousing" one another and eating the vermin Once I saw a group of dirty squaws sitting on the ground and, as there were not enough to supply all, a shaggy dog was being gone over by one of them As they eat a great deal of

Medicine Men - These Indians, to an extent, still We placed him under the influence patients by "pow-wowing" and drumming over them Then a deep guttural sound and hideous in the extreme I am informed that the wound has healed results. I have been told one of the ways by which very kindly, and the patient is very much improved they gain their knowledge and become "medicine men" They go on the hill-tops, and in the extreme Skin Diseases —The Indian has a very delicate heat he with their faces to the ground for days, and refuse food or drink, until from exhaustion they become delirious, then it is, they claim, that a spirit comes to them in the shape of a wild animal, or some-Itch is very common, and eczema, herpes times it is a weed that speaks to them and sings them Shortly a song, telling them that the song will drive out cer-I found him in a tipi in the grove near drum, is a full-fledged doctor. You can always tell when they are at work, for they run up a medicine Locally I had him use a ation of the patient The Indian believes that all diseases are the result of certain power delegated only to the medicine man They think that consumption is produced by blowing into the system a seed of grass, and that he alone has power to heal them They attribute headache to an evil spirit, and nothing but the drum and "pow-wow" will drive the spirit away They believe, however, that a boil is the result of a silent shot from a duck, while a car-When one of buncle is from the shot of a goose make medicine over the patient I once attended a feast of this kind The soup is made of dog, which, by the way, is considered a great luxury They all eat while the "medicine man" beats a drum and sings or chants a most fearful and dismal ode, which is kept up for hours or until the soup is exhausted

The Indians, as you may well suppose, are very superstitious, and if they can avoid it they never allow the patient to die in the house or tipi happens they tear down the house, and never live in

it before the patient dies and, if possible, put them into it and carry them out of doors to breathe their last

A very amusing incident occurred at the Agency some time ago A squaw made complaint against her liege lord—who, by the way, was a "medicine man," and said he was not providing for her made a bold speech in his own defense, in which he said, with great pomposity "I am better than other men, why? Because I am a doctor I have pomes and cattle, why? Because I am a doctor My body is worth gold, why? Because I am a doctor

Not long since one of these medicine men called on me to prescribe for his son for retention of urine I did so, and the boy soon recovered I was not aware at the time that the fellow was a "medicine man," but one day he came to me and said friend, my heart is very good, your medicine is good, my boy is well" I said, "How?" He then laid his hand on my arm and said he was a doctor and that I was a doctor, and we should be friends He then shook my hand and went away

But notwithstanding these people to some extent retain their medicine men, yet they appear to be progressing, and many of them have come to know that the white man's medicine is far superior to the mystifying, conjuring pow-wow of the Indian, and they are fast learning that the Indian doctor is a fraud am indeed encouraged and gratified with my work and the results One very annoying thing, however, is that they have no idea of our plan of reckoning time, and medicine can only be given at intervals of about six hours, or three times a day, so that the physician must be exceedingly careful in what doses he prescribes and what he gives, for the Indian is hable to drink the contents of a bottle at one time

But these people are surely progressing we stop to consider that only a dozen years ago they were a wild, savage race, huddled together in one large band, living in tipis along the Missouri, without mellitus or Bright's disease is the sequela an Indian house on the Reservation, and all in blankets, and that to day nearly every one of them have their lands in allotment and are living in good comfortable houses, while many of them are clothed in citizens' dress, and are farming and getting for themselves herds of cattle and horses, we can but say that they have made a marvelous and rapid advance towards civilization, and I predict that the day is not far distant when they will be self-sustaining With the aid of the efficient force of employes and the energetic missionaries at work, we hope for great achievements in the future

Summary - Cases treated in all, 790, patients visited in homes, 97, in tipis, 100 I have traveled to see sick on horseback 94 miles, have walked 97 miles, have traveled in spring wagon 1,170 miles Births during the year, 55, deaths, 57

September 25, 1887

THE BURIAL REFORM ASSOCIATION of England is an organization that advocates early interment, and the use of perishable coffins to permit rapid disintegration after burial in the earth

THE USE OF WATER IN THE TREATMENT OF RENAL AND HEPATIC DISEASES

Read before the Northwestern Medical Society, January 10, 1888

> BY E F ELDRIDGE, M D, OF NEW LONDON, WIS

For the past five or six years I have been much interested in the cause, pathology and treatment of the various morbid conditions of the kidneys, more particularly in that departure from the normal that is quite frequently met with in this country, especially among business and professional men, which is the direct result of the ingestion of too great quantities of carbo hydrates in the form of fat, sugar or starch, over-stimulation of the nervous system with alcoholic beverages, the immoderate use of tobacco, excessive mental activity, worry, lack of sleep, dissipation, etc. The frequency with which our attention is called to this condition and the subsequent history of these cases, if left to themselves, is such that it should excite our deepest sympathy, and receive our most earnest attention

In these cases irritation and congestion (which finally become chronic) of the kidney are induced by the continued excretion of uric acid, the results of imperfect digestion or oxidation of albuminoids, the straining off of large quantities of partly converted starch in the form of sugar, or of an excessive amount of the different combinations of the phosphates from the destruction of nerve tissue Tobacco and alcohol produce the same results, the former by paralyzing the coats of the arteries, and the latter by increasing the heart's action and raising The result of either is to dilate the blood pressure the capillaries to twice their original calibre, and produce a condition of static congestion and functional incapacity If this condition is allowed to continue, organic lesion is the result, and either diabetes

In prescribing for these patients it is necessary to ascertain which of the above causes is the active one in the particular case under consideration, and remove it if possible, if not, as is often the case with worry, overwork, etc , to modify its influence by the aid of proper food, hygienic surroundings and suitable remedies, so as to reduce its injurious effects to a minimum

The great struggle going on at the present day among professional and business men for the leading position in their respective callings is the result of a firm belief in the doctrine "that the survival of the fittest is the inevitable" In regard to health and life this is not true, and should be so understood by patients suffering from any of these maladies Errors of diet and deportment must, of course, be corrected

The second consideration is that of the removal of the waste material, or of getting rid of the "accumulated surplus" with which the system is loaded, and which is continually undergoing a retrograde metamorphosis, the result of which is the production of highly poisonous irritants in the form of uric acid, etc In no way can this be accomplished (so far as I know) as rapidly as by solution or hydration, in fact, this is the only way with which I am acquainted, and drink freely of pure water, i e, that which conthat solids in this form can be removed from the tains the smallest amount of solids, and of course no

In looking for a solvent for these substances, I find none that can approach the capacity of water, the greatest solvent known, and, reasoning from the laws of chemistry, and the actual results of experiments, those waters that contain the smallest amount of salts, are capable of dissolving and holding in solution the greatest quantity of solids, and particularly those represented by combinations of lime, uric

I am thoroughly convinced that any and all waters that are in fact what they purport to be, t e, waters containing an unusual amount of mineral substances, are far inferior to those that are comparatively free from salts of all kinds

While in practice in Boston I was in the habit of prescribing in these cases "Commonwealth Water" from the famous spring of that name situated near Waltham, Mass, that is a very pure water containing about 35 grains of solid ingredients to the gallon I found this superior to any of the much vaunted waters of a higher specifice gravity, for the simple reason that it was not already saturated or loaded its source, the different strata of sand through which with solids in solution

city, New London, Wisconsin, and the following season, after assuring myself of the feasibility of the feet (the drill passing through three deposits of clay undertaking, succeeded in inducing some of my neighbors to join with me in sinking an artesian well The enterprise was successful, and for the past three years the inhabitants of our city have been enjoying the privileges of some twenty flowing wells that furnish thousands of gallons per day of the purest natural water that I have ever used, it containing less than 25 grains of mineral substance (about one-half of which is chloride of sodium or common salt, and the remainder largely magnesia, with a small amount of lime and potash, not any of which in such very small quantities are objectionable) to the gallon, without a trace of organic matter also highly charged with static electricity or magnetism

Since this water became the common beverage I have been surprised and gratified to note the rapid improvement in patients suffering with chronic disease either of the liver or kidneys, and the almost entire absence of acute hepatic or renal disturb-My serious attention was first called to these facts by the continued failure to report at my office of a number of patients that had been under my When questioned in regard to their absence, they replied that they had been drinking fountain water, and felt so much better that they did not need medicine After carefully studying a large number of cases of kidney diseases and gouty tendencies in those who had been using a thorough course of these waters, and witnessing their rapid improvement, I am positive that the opinion expressed by my patients was well founded and in the main absolutely correct In other words, I believe that a large majority of these cases would make a rapid recovery if they would correct all the errors of their mode of hving sions, or in those occurring in the earlier months of

organic matter

Sometimes these patients are anæmic and require the exhibition of ferruginous tonics or other reconstructive, represented by some form of phosphorus, cod-liver oil, bark, etc Others may be suffering from some specific taint that will indicate alteratives in the form of the iodides, stillingia, hydrargyrum, etc., te, the appropriate medication I do not wish to be understood as condemning the employment of medicine in its proper place, far from it What I do wish to emphasize is this in these cases the most effectual way to rid the system of its accumulated load of waste material, and one that will not prevent the employment of any other, is to thoroughly wash the entire system (not simply the outside, until they appear like whited sepulchres, which indeed they are, full of dead men's bones and all uncleanness), but the inside as well, and at the same time stop their production and subsequent accumulation by the use of proper food, the observance of regular habits, with the continued ingestion of a sufficient quantity of pure water

After a careful and quite extensive examination of it passes for more than twenty miles, the absolute Early in the spring of 1883 I located in my present impossibility of its contamination, from the fact that the vein is tapped at a depth of not less than 150 that are impervious and insoluble, the aggregate thickness of which is 75 feet), and the absence of mineral deposits which might affect it, with a careful analysis, and the results of clinical experience, not a single case of malarial or typhoid fever or any zymotic disease having developed for the past three years among any of those who were using fountain water in our city

In view of all of these facts I am thoroughly convinced that it would be difficult, if indeed not impossible, to produce a water (either as a preventive or as a remedy in all hepatic and renal diseases, and This water is especially those that are characterized by an accumulation of waste material in the system) that would equal that which is discharged from the many flowing wells of the city of New London, Wis

> A CASE OF CEREBRAL LOCALIZATION, WITH DOUBLE TREPHINING (ACQUIRED SPASTIC HEMI-PLEGIA—PORENCEPHALUS)

Read before the Suffolk District Medical Society, January 11, 1888

BY W N BULLARD, MD, OF BOSTON

The case I have the honor to report to you to-night derives its chief medical interest from the fact that the diagnosis of the lesion, and the localization of its seat were correctly made during the life of the patient, and that the latter was such as could be easily reached by a comparatively simple operation Cases of operative interference in congenital cerebral leportance that the possibility of localizing these lesions, that is, anteriorly and posteriorly they be incapable of cure, their results can be mitigated, should be strongly emphasized Until of late years, but little attention has been paid to the various forms of congenital or infantile cerebral lesions, excluding hydrocephalus and inflammations of the meninges Patients suffering from congenital or infantile cerebral paralyses are too often considered not only absolutely incurable, but incapable even of improvement Some cases unquestionably are so, but on the other hand, I believe that in many of this class of cases we can do much to improve and mitigate those symptoms which we cannot remove, and there is no doubt that a broad field hes open here for cerebral surgery, provided only that the neurologist can state with some degree of precision the condition existing within the be moved somewhat, but is never used cranium, and if the lesion be a localized one, point out its seat

The present case occurred in the service of Dr Bradford, at the Children's Hospital, and it is through his kindness and at his suggestion that I bring it be-

fore you to night

The patient was a boy, $4\frac{1}{2}$ years old There was i no history of any nervous disease in the family, and no history of the patient was obtainable, except that he was supposed to have been in his present condi-The delivery was by forceps, and tion since birth the child had a scar and depression over the right parietal bone, supposed to have been caused by them There was no history of convulsions at any time The child was brought to the hospital by his parents, who insisted upon an operation—trephining over the depression-although they were informed that there was little hope of improvement from what they desired, and still less of cure This operation had been decided upon before I saw the child.

I first saw the patient at the hospital on the 22d of June, 1887, when his condition was as follows

The child was seated in bed As a rule, he sits quietly all day, doing nothing Expression vacant Intelligence limited, although he has a certain sense of his surroundings, as was shown by his screaming one day when he was placed in a bed in another part of the ward, and pointing with his finger to the old one, and continuing this until he was replaced understands simple words and sentences, and obeys simple directions He signifies when he is thirsty When told to do so, he will turn his head, and he will hand an object to a person, or smell of a rose, when it is suggested to him He can say "yes" and "no," and will say "good bye" when any one is going away, but he cannot talk He drules constantly

Physical condition Well nourished, well developed Head large, rather square On the right side, 5 cm behind, and about 4 cm above the upper edge of the anterior border of the pinna, there is a scar 5 cm long, extending forwards and slightly upwards This scar lies in front of the occipito-parietal depression, which is alike on both sides, and seems to cross the temporal ridge of the parietal bone, and the squamo-

life, are very rare, and I, therefore, believe it of im- and a depression with irregularities on each side, There is no deand the probability that in certain cases, even though cided tenderness here or elsewhere about the head Nothing else abnormal was detected about the

All the special senses appear normal There is right internal strabismus Eyes not examined oph-

thalmoscopically

Nothing abnormal could be detected about the trunk or organs of the thoracic or abdominal cavities There was an occasional reduplication of the first sound of the heart

The spine was straight, no tenderness in the back The patient cannot use any of his extremities, but he uses those on the left much better than those on

the right

Upper extremities The right upper extremity can It is in a The fore-arm is held condition of spastic paralysis semi-flexed upon the arm, and there is considerable resistance to passive motion, which can, however, be overcome after a time The hand is firmly flexed on the forearm He will not grasp anything with the He moves the left upper extremity right hand much better than the right, and always grasps objects with the left hand, and then holds them firmly

The right lower extremity is Lower extremities smaller, and possibly colder than the left There is a spastic condition of the knee and ankle The foot is held flexed in the equinus position, with the toes pointing downwards Some movement of the limb, however, is possible He can flex at the thigh, knee, and ankle when he wishes The left lower extremity is somewhat weak, perhaps from disuse, otherwise, nearly normal

Knee jerk exaggerated on both sides Patient is unable to walk or to stand without support He can take a step if supported under the arms, and he can hold his weight on the left leg. If the legs become locked at the knees, as they tend to do, he can support a portion of the weight of his body upon them The sensation is apparently normal everywhere throughout the body Nothing else abnormal detected

To resume the case in short, we have here a boy four and a half years old, with much diminished in-He telligence, inability to speak, inability to use any of his limbs well, and with right internal strabismus and right spastic hemiplegia In addition, there is a wellmarked cicatrix and depression in the right posterior parietal region

After examination of the case it was decided, at my suggestion, that in addition to the operation already proposed, the cranium should be opened over the cortical motor area of the left side, as this seemed

to offer the strongest prospects of relief

The operation was, accordingly, performed on the 27th of June, by Dr Bradford The patient being etherized, the various points were localized on the shaven head, and the position of the fissures of Rolando determined as carefully as possible Dr Bradford trephined first on the right side of the head, parietal suture On palpation, there is an irregular directly over the cicatrix A curved incision with its knob or prominence under one portion of the scar, convexity downwards, about six inches in length, was made through the scalp, the periosteum was removed and I believe it to be the duty of the neurologist, so intact, and the cranium trephined—the trephine used far as lies within his power, to improve and perfect being an inch in diameter. The outer table of the his knowledge, so that, when appealed to by the surportion of bone removed showed a fracture, and the geon, he shall be able to point out where the instruinner a slight inequality, due to a fissure mater exposed was thickened and its vessels filled lesion is likely to be found with blood It (the dura mater) was then incised, and the brain and pia exposed to view There was no evidence of pressure, nor of anything abnormal least—can be reached by surgical interference with The brain protruded slightly here below the dura through the opening and pulsated [It is important longer be regarded as a serious operation in ordinato note here the fact that, in spite of the fracture of the cranium, and the accompanying thickening of the dura mater, the pia and brain were, as far as could be told, absolutely normal 7

It was now decided that it would be wise to trephine over the probable seat of the lesion on the left side, and, at Dr Bradford's request, I located the motor area on the left side, where it was presumable, from the symptoms, that the lesion would be found This point was a little higher and slightly further forward than that trephined on the right, at the junction, as nearly as could be determined, of the middle and lower thirds of the fissure of Rolando There was a very small superficial cicatrix in the skin here, not involving the deeper tissues of the scalp, and which had remained undetected until the position was marked An incision similar to that made on the right side was now made here cranium, when uncovered, appeared perfectly nor-It was trephined, and, on the removal of the bone to which the dura was attached, a depression in the brain substance—porencephalic cavity—was This not only occupied the whole space directly under the opening, but also extended some-The pia seemed to be adherent what anteriorly The brain substance in this depression, which was estimated as about 11/2 inches long, by 3/4 inch wide and 3% inch deep at the deepest part, was puckered and shriveled Considerable hæmorrhage from the to perform two operations bone followed the removal of the button on this side This was quickly controlled by plugging

As the patient's condition was poor—pulse very weak, and respiration slow and labored—nothing fracture or visible injury on one side, the actual cere-After replacing the buttons further was attempted of bone on each side, and stitching the dura mater on the right, the incisions were sewed up, and bandages and dressing applied

The patient, however, never rallied thoroughly after the operation, although he recovered consciousness in the evening, and was conscious until the following morning, when he died at 10 A M, about seventeen hours after the operation The temperature was not taken on the evening following the operation, but the next morning rose to 105° There was no autopsy

This case, it seems to me, illustrates some interest-In the first place, it demonstrates the possibility of localizing lesions of this character (porencephalic) in children in certain cases is, of course, the first step in any rational attempt That these lefor their direct alleviation or cure sions can be localized with moderate accuracy at least, sufficiently for all practical purposes in a large proportion of the cases of this class, I am convinced, an association formed in London on February 13

The dura ment should be directed, and to state what sort of

Secondly, I believe that this case may be accepted as evidence that these lesions—many of them, at out serious difficulty, since simple trephining can no rily healthy persons If this be true, its importance is at once manifest If these lesions can be localized, and if surgical interference in them is not a matter of serious difficulty nor of marked risk to the life of the patient, we have here at least one expedi ent which offers a prospect of alleviation in these cases, however remote

It is well known to most of us, but I repeat it here for the sake of emphasizing it again, that there are no cases which, as a class, are regarded by the whole medical profession as more utterly hopeless and as more entirely beyond any possible medical aid and assistance than congenital and infantile brain affec-There is no class of cases in which the pa tients are more utterly useless to themselves and to the world, or more of a burden to their parents and relatives Anything, therefore, which affords the The least prospect of relief, is in them of the utmost importance

There are two other points in this case which are of both neurological and surgical value, which I will refer to in short

The first is the question of the advisability of trephining in more than one place at the same time in Whether, in this case, the result might children have been more favorable had the operations been performed separately, it is impossible to decide, but in a similar case it would certainly seem more safe

The second point is one which, although theoretically well known, cannot be repeated too often, and This is that, in spite of a it is well illustrated here bral lesion may be upon the opposite, whether produced by direct violence or by contre-coup fore, in case of cerebral injury, if the symptoms point to a lesion on the opposite side from the trauma, for example, if the hemiplegia is on the same side of the body as the fracture of the cranium, we should not trephine at the place of fracture, but on the other side

In the case of our patient, the probability is that the whole trouble was traumatic, and due to the pres-While on the right the parietal bone sure of forceps was fractured, on the left, the bone being more yielding or the blade being in a slightly different position, or for some other reason, a different effect was produced This was probably the rupture of the ascending parietal artery or one of its branches

THE BRITISH NURSES ASSOCIATION IS the name of

THE USE OF SACCHARIN IN DIABETES BY CHARLES W PURDY, M D,

OF CHICAGO, ILL

HON FELLOW OF ROYAL COLLEGE OF PHYSICIANS AND SURGEONS, LINGSTON ONT

Sufficient time has now elapsed since the introduction of saccharin to permit extended observations of its physiological effects upon the organism, as well as to learn something of its therapeutical properties. This time, happily, has been improved by numerous observers, especially by Stahlman, Salkowski, Stutzer, Adducs, and Leyden, to whom we owe much of our knowledge upon this subject

We know that this agent is absolutely innocuous to the system, even when administered in sufficient quantity to equal in sweetening power three pounds of sugar a day, and continued indefinitely. The fact that large contracts have recently been made for the supply of saccharin for military use, both by the German and the Russian governments, indicates clearly its harmlessness as a flavoring agent for food and drink

With an agent so harmless, and possessing a sweetening power more than three hundred times that of sugar, we naturally turn to diabetes as a useful field for its employment, since the deprivation of sugar always so essential in successfully treating these cases—is often one of the severest trials to the patient in the enforcement of the diabetic dietary. Simply as a flavoring agent saccharin leaves little to be desired as a substitute for sugar, save its sparing solubility. It is of course entirely devoid of nutritious properties.

From a liberal use of saccharin in my practice since its introduction I have not yet met with a single instance in which its palatability was suggested as in the least inferior to that of the purest sugar

The most desirable form for the use of saccharin by diabetic patients is that of tablet, since in this form a combination may be made—usually with an alkaline carbonate—which renders the saccharin perfectly soluble in water I have made numerous trials and experiments with the several forms of saccharin tablets at present on the market, both here and in Most of these have been found quite soluble, but they contain rather an excess of saccharin which I think in some respects objectionable From a grain to a grain and a half of saccharin will render a cup of tea or coffee about as sweet as will two lumps of white sugar, and I find that while most patients crave the flavor of sugar, some resent an excess of it, and therefore the tablet must be broken—and consequently in part wasted—in order to get the desired grade of flavor The tabloids I am now using are made for me by Parke, Davis & Co, of Detroit, and contain each 25 milligrammes of saccharin, in the shape of soluble salt, and these give entire satisfaction

In addition to its use as a flavoring agent for food and drink saccharin possesses properties that render it valuable as a medicinal agent in the treatment of diabetes. It possesses decided antiseptic properties,

1 One part of saccharin can be distinctly tasted in 10 000 parts of water

estimated by trustworthy observers about equal to that of salicylic acid and thymol On the other hand, saccharin exerts no action on ptyalin or pepsin, and, moreover, it seems to have no secondary action on the digestive secretions—passing unchanged through the organism, to be eliminated by the kidneys, as do benzoic acid and resorcin—imparting its antiseptic properties to the urine

In diabetes, as is well known, the necessary ingestion of a food mostly of a nitrogenous character often weakens the digestive power of the stomach and flatulent dyspepsia is the result. Now in saccharin we possess an agent that very much retards the abnormal fermentative changes in the stomach, and its tendency therefore is to preserve the food from such changes until the tardy flow of gastric juices finally reaches and digests the whole contents of the stomach—just as does carbolic acid and such

agents relieve flatulent dyspepsia

We are perhaps justified in looking for another possibly beneficial action of saccharin in diabetes, based upon its antiseptic properties, though thus far our knowledge rests mostly upon a theoretical foun-When we consider the strong tendency to fermentative action in the blood of diabetic patients, as is evidenced by the frequency of multiple furunculus and anthrax, as well as Kussmaul's coma, we can scarcely resist the conviction that the passage of such an antiseptic as saccharin through the bloodespecially in large doses—cannot but have a modifying influence upon these fermentative changes Theoretically then at least, saccharin if given in considerable quantities might be expected to exert a most beneficial influence over those blood changes in diabetes from whence spring complications comprising the most serious and fatal features of the disease

In brief, then, we are justified in the following conclusions in reference to the use of saccharin in diabetes

First, that in this product we possess a flavoring agent for food and drink the palatability of which is quite equal to that of the finer grades of sugar, and which may be used by diabetic patients with the greatest impunity

Second, that through its antiseptic properties it retards the abnormal fermentative changes in the stomach so common in diabetic patients—thus pro-

moting digestion and relieving flatulence

Third, that while as yet we are without sufficient practical data to judge of its blood effects in large doses to diabetic patients, yet both chemistry and physiology would indicate its use for the purpose of favorably influencing some of the more fatal complications of the disease

163 State St Chicago, Feb 13 1888

PROFESSOR NAUNIN, lately appointed to the Chair of Medicine in the University of Strassburg, will begin his course on April 1 For his vacated chair at Konigsberg the names of Strumpell, Quincke, and Lichtheim are mentioned

MEDICAL PROGRESS.

ANTIPYRIN IN MIGRAINF -DR W H RUSSEIL Forsbrook has prescribed antipyrin in 100 cases of have been much used in this disease. When it has He has found that antipyrin given in 15grain doses every twenty minutes, three times consecutively, almost invariably removes the pain, depression, drowsiness, and nausea, so that in forty have had an opportunity of treating as many as minutes, frequently even after one dose, patients express themselves quite well A single dose, if given during the premonitory signs, will often ward off an The few cases that are not amenable to the speedy action of the medicine, appear to have the duration of the attack much shortened Further, the period between the attacks has seemed to be prolonged, and succeeing attacks have not been so The pulse, which is generally slowed during an attack of migraine, appears in some cases to be rendered fuller and quicker to young women for migraine, sometimes produces a species of intoxication, so that it is as well to be on one's guard, although, as far as his experience goes, the only result has been the almost certain and immediate relief from the peculiar pain Lancet, December 10, 1887, p 1163) During the last two month, Dr Kingsbury, of Blackpool, has treated twenty cases of migraine with antipyrin Several of the patients had suffered for over ten years, and, finding all drugs useless, had become reconciled to being periodically prostrated for one or two days In all the cases he ordered 8 grains of antipyrin, dissolved in water or lemonade, to be repeated every half hour, the patient lying down Most of the cases were quite cured by two powders, the most obstinate yielded to three, in no case did A cup of warm tea sometimes the antipyrin fail seemed to help, and the only inconvenience due to the treatment was, in a few of the cases, considera-Many of the patients could hardly credit that instead of being utterly helpless for twenty-four hours, they could now cut short an attack in one hour Another great advantage of antipyrin is that it prevents as well as cures these at-One lady, who cannot remember having fewer attacks than three a month, each lasting about thirty-six hours, has been quite free for eight weeks, and this she attributes solely to the occasional use intellect of antipyrin powder (Brit Med Journ, December undue fatigue, and is attended with a good deal of 24, 1887) In a letter on this subject Dr N E Davies says that in the cases where he has tried it attack and promptly administered antipyrin the effect of antipyrin has simply been marvellous In one case of a lady, who for years had been the subject of most distressing periodical attacks of intense pain referred to the occiput that defied all whom the fits are preceded by a well-marked aura in ordinary remedies, this drug relieved at once, and the depressing fear of impending attacks disap-It leaves no ill effects whatever-a great Ten grains repeated every hour for desideratum two or three hours is his plan of giving the drug, and then at intervals of six hours for a day or two after to prevent all chance of a recurrence, this generally being at the desire of the sufferer

MR T J BOK MHAM says

the past few months attracted considerable attention in Germany on account of its astonishing action on the paroxysms of migraine In England, however, until quite recently, the drug does not appear to been tried at all, the doses given have been large, and have in some instances been found to produce unpleasant effects During the last two months I twenty-six cases of migraine with antipyrin results have been in every case perfectly satisfactory. although the dose given has been quite small, in no case exceeding 4 grains I will only describe three typical cases namely that of a near relative that of a girl, members of whose family exhibit epileptic tendencies, and an attack as occurring in myself

My own migraine is usually brought on by over-use of the eyes, and is almost invariably preceded by well-marked teichopsia, which lasts for from half an Antipyrin, when given hour to several hours As the attack proceeds, I get a tender spot on some part of the scalp, generally on the right parietal region, a vascular disturbance, with throbbing behind the right eye The first time I took antipyrin it was in a dose of 3 grains after the pain was well developed. In a very short time the throbbing entirely ceased, leaving only a dull aching pain behind the eye, the flushing of the face also diminished After half an hour I took a second dose of 3 grains, and by the end of an hour from the time of taking the first dose was quite well, save for slight tenderness of the scalp Since then I have tried the drug, in the same dose, taking it immediately the teichopsia comes on, with complete success in altogether preventing the attack

The second case is that of a lady who has been subject to attacks of migraine for many years ing point of her attacks is also in the eyes For a long time large doses of ammonium bromide were successful in cutting short the attacks, but recently this drug seems to have lost most of its power Antipyrin entirely relieved the prostration and pain

after the second dose of 3 grains

The third case is interesting in that it points to another class of cases in which antipyrin may be of use, namely epilepsy Here the mother is epileptic, the father is of a very excitable temperament, and another member of the family shows signs of weak In this case migraine usually follows any prostration I happened to be with her during ore headache yielded entirely after the second dose of 4 grains

I have under observation also two epileptics, in the shape of tingling of the extremities of the fingers They are directed to take, immediately they feel this sensation, 10 grains of antipyrin in a little water If the theory of Dr Liveing concerning the close pathological relation between migraine and the other so-called paroxysmal neuroses be true, there is some hope that in both these diseases we may be able to check or to cut short the attack by the Antipyrin has for timely use of antipyrin I have not yet had the opportunity of observing the effect on these two pus, from which no bacteria could be obtained

The plan I have pursued with so much success in this series of cases is to give very small doses, contrary to the practice of most physicians, who have reduced the tissues to a soft hæmorrhagic mass used as much as 15 grains repeated every twenty minutes. I feel sure that antipyrin requires only to ment of migraine and that practitioners will use the small dose with less hesitation than they would the large ones previously given -The Practitioner, February, 1888

Causes of Subcutaneous Inflammation and Suppuration -Grawitz and De Bary (Archiv für Patholog Anat u Physiol u für klin Medicin, Bd 108), report some experiments showing that the introduction of pus bacteria into the subcutaneous tissues is not in itself sufficient to cause suppuration, but that other factors must be present to furnish a suitable condition for their growth and multiplica-In their experiments they carefully cleansed and disinfected the integument at the proposed site of injection, used a thoroughly clean needle of small. caliber, and immediately closed the wound made by the needle with iodoform collodion It was found that with these precautions large quantities of neutral fluids were absorbed after subcutaneous injection, both when sterilized and when infected with the Staphylococcus pyogenes aureus or cureus to a greater extent than the most careless experimenter would tive inflammation ever accidentally infect sterilized fluids They therefore consider the wound made by the needle to be the point of danger, as the bacteria are held here, multiply, and spread through the tissues, while those in the meshes of the subcutaneous tissue are absorbed before they can do damage In this way they explain the observation of Uskoff that suppuration was produced by the injection of large quantities of neutral fluids, and negative the assertion of Orthmann that the suppuration so produced was due to the admixture of bacteria In some cases the mtegument over the injected fluid died, and in these cases suppuration occurred Histologically, the connective-tissue cells at the site of the injection were plainly seen in the sheaths of the neighboring nerves, demonstrating that narcotic substances so injected this wire severs that part of the organ probably exercise a local effect Subcutaneous ina solution of bichloride of mercury (1 to 1,000), ab solute alcohol, and tincture of iodine-were followed by severe inflammation, but no suppuration unless the integument became necrotic After successive injections of solutions of chloride of zinc, varying these is, I conceive, a very great gain from 1 to 5 per cent, into the same portion of a muscle of a rabbit, a fluid impregnate with Staply there was no pus After the injection of a few centimetres of a 5 per cent solution of nitrate of silver into a dog, an abscess was formed containing | 147

epileptics, but it would certainly seem to be worth a solutions not germicidal, but able to arrest the development of bacteria, acids and alkalies produced no suppuration, even after the addition of bacteria, though 5 per cent solutions of the caustic alkalies jections of 1 to 4 solutions of ammonia caused the minutes I feel sure that antipyrin requires only to formation of pus, cultivations of which in agar agar be known to become a regular remedy in the treat-remained sterile. When bacteria were injected with it, flourishing colonies of the same form of bacteria as those injected could be cultivated from the pus Hence they conclude that ammonia, in sufficient concentration to cause severe inflammation and suppuration, furnishes in the subcutaneous tissues a suitable material for the growth of bacteria. Oil of turpentine they determine to be a germicide of the Instruments immersed in it for two first rank minutes are, they maintain, absolutely aseptic, and are not injured as by solutions of bichloride of mercury and carbolic acid Injections of this oil failed to produce suppuration in rabbits and guinea-pigs, but in dogs abscesses were formed which contained a peculiar pus with no bacteria Small amounts of croton-oil produced fibrinous exudations, but no pus, larger quantities caused poisoning These observations show that certain chemical substances, in the right quantity and strength, can, without bacteria, produce suppuration in certain classes of animals, or may render the tissues suitable for the growth of bacteria which, injected alone into the normal subcutaneous tissue, cannot, unaided, cause a suppura-

A METHOD OF Excising the Tongue -In a clinical lecture Mr Richard Barnwell describes the following method Strictly in and along the middle line an opening is made about one-third of an inch long immediately in front of the hyoid bone, through the raphe of the mylo hyoid The geniohyoid and genio-hyoglossus muscles are separated with the handle of the scapula until the deep surface of the mucous membrane forming the floor of the mouth is reached By means of Liston's needles carried under this membrane to, or even beyond, the last molar teeth, threads are passed on each side into the buccal cavity, which in their turn draw found swollen and nuclear When the solution had flexible wire-twist, first into, then out of, the mouth, been colored with methyl-blue, the coloring could be in such wise as to surround the base of the tongue as far back as one will An écraseur working with Then the loop of another écraseur is passed between the jections of certain germicidal irritant fluids-such as teeth, pressed well down on the first incision, and divides the structures beneath the tongue

The advantages are the bloodlessness of the operation, its great security against septic pneumonia, and the painlessness of the stump The first of four drops of blood come from the skin of the suprahyoid wound, and only enough should be produced lococcus p) ogenes aureus was injected into the same from the tongue to stain slightly the saliva. It is, place. The muscle was found disintegrated, but however, right that I should tell you of an objection that has been urged against this procedure—viz,

¹ See my paper in the Clinical Society's Transactions vol xit,

that if in the first section by the Coraseur any con-diarrhoea, dysentery, phthisis, etc siderable hamorrhage should occur, the bleeding nance to and intolerance of food in almost every vessel would be inaccessible, the tongue being yet in form, which do not always yield to acids, bitters, and The matter, however, hes entirely in hux vomica as usually given the mouth the hands of the surgeon, for the fact is that unless bis in small doses—m, v-x of the tincture, or gr 1/4-1/2 the ecraseur be worked with culpable rapidity there of the catract—has been found very useful. The is never any bleeding worth mentioning, since no tincture may be given in emulsion, with a small quanlarge vessels are here divided Moreover, the tight- tity of mucilage and simple syrup, and flavored with ening of the écraseur wire produces that very compression of the base of the tongue which Mr Heath has shown can be effected by two fingers introduced sugar, gum acacia, etc., to proper consistency The into the pharyn, and which he points out will check mixture or lozenge may be given three times a day, I have operated by Whitehead's and half an hour before meals hæmorrhage by Baker's method, and have more often seen those One of my objections to operations performed both is that an unnecessary amount of blood is lost The former method especially requires a particularly good light, and a patient quite under anæsthesia, and able to open widely the jaws—a condition not by any means always present Moreover, neither of these operations provides for draining the cavity, therefore foul saliva and pus accumulate at its back and in the fauces, is even apt to dribble stages of tropical diarrhœa cannabis is sometimes down the laryn, and at least infects the passage useful through which the breath passes to the lungs In essentially of the liver, and cholagogue remedies my operation the supra-hyoid wound forms, if the must be used patient's head be slightly raised, the funnel-like bot- as blue pill or gray powder The mercury is given tom to a cavity perfectly drained through that open- at night, and the cannabis during the day Begin I have never found it followed by septic pneumonia, and am glad to hear my patients complain, as they always do, that the mouth is dry also been urged that this method does not provide for excising diseased glands Well, that is true both of this and of the other two procedures I have men-Superficial glands must be removed separately, the only plan which is adapted for the removal of the tongue and of deep glands is Kocher's exceedingly severe operation

And now about the painless condition of the The chief, if not the entire, tactile sensibility of the tongue is derived from the gustatory branch of the fifth, for this sense in the glosso-pharyngeal twig is very dull and obscure The lingual gustatory reaches the tongue by passing down on the ramus of the lower jaw, and division of it in that part of its passage is a device for rendering the organ insensi-Now the first cut of my écraseur divides these nerves from the point where they leave the jaw, or more often the wire does not cut them, but isolates them, leaving them as branched white threads loose in the mouth, in which case they are to be snipped off with scissors close to the bone, either way the stump has no sensory nerve, and thus is painless, to the great comfort of the patient -Lancet, Dec 31, 1887

Uses of Cannabis Indica —Surgeon-Major J F P McConnell, of the Bengal Service, in an article on this subject in The Practitioner, of February, 1888, speaks of some uses of cannabis indica One of that do not seem to be generally known the conditions in which the drug has proved useful in his hands is anorexia—loss of appetite consequent gum tubing of different sizes and strength and made upon exhausting diseases, such as prolonged fevers, applicable to each case by such impromptu means as

There is a repug-In these cases canna-The extract may be given in lozenge rose-water or bon-bon form, after being rubbed up with white

Another condition is dyspeptic diarrhaa, and the diarrhœa that is associated with defective action of the liver and deficient secretion of bile, and that tends to diarrhœa alba (tropical diarrhœa, in which there is a tendency to action of the bowels soon after meals, and a consequent hurrying of imperfectly digested food through the bowels In the earlier stages of this disease cannabis is often of great service in controlling the diarrhea Even in more advanced The disease seems to be one primarily and Of these mercury is most reliable with mo of the tincture, and gradually increase the dose to may, ax, or ax, three times a day or It has oftener A suitable combination is

Tincture cannabis indica.	mx-\:
	•
Subnitrate bismuth	gr \
Mucilinge of acricia	35°
Comp spts chloroform	m,,
Cinnamon or peppermint water	Ē)
7tp	

Give before or after food, preferably after, especially when the dose is increased, since in this way unpleasant symptoms are obviated

Both in tropical and in dyspeptic diarrhœa cannabis is better than opium because it in no way interferes with the bile-forming function of the liver But when tropical diarrhœa has gone so far that the functional disorder of the liver is succeeded by organic changes, cannabis is useless

A third condition in which cannabis is useful is in cases of chronic cardiac disease, and in chronic Bright's disease as a hypnotic In cases of distressful insomnia and general inquietude, with an enfeebled heart, in which chloral seems inadmissible, the administration at bedtime of Mav-ax of tincture of cannabis, with a small dose of chloral (gr) and 3ss of bromide, will often give the desired effect

NASAL INTUBATION -DR D H GOODWILLIE, IN a paper read before the Section in Laryngology and Rhinology of the New York Academy of Medicine, December 27, 1887, described a method of nasal intubation as a valuable aid in the treatment of intranasal disease

My first efforts began by the use of pure rubber-

These experiments, after being I had at command I had the tubes made in soft rubber and platinum or aluminium from models that have proved by experience to be of practical application These improved tubes properly made have given me good results

of different sizes, one fourth to one-half inch in diand one-half inches, but may readily be cut to any The metal tubes can be changed in desired length desired shape The anterior end may be soft rubvestibule of the nose changed to larger ones until there is normal space the nose and mouth or the deformity has been corrected freer respiration through them passing it into the inferior meatus, then releasing the was drawn upon end of the nose and passing the anterior end into curred after the first twenty-four hours so can be worn and treatment carried on without any unsightly appearance, or even knowledge of They can be readily removed by their presence the patient for cleansing and returned to the nostril Some of my patients have worn them constantly for months without discomfort and always with benefit

I will simply refer to some of the nasal diseases in which they have been made use of—viz

Intranasal hæmorrhage

2 Fractures of the nose, internal and external

3 Deviations of the cartilaginous and bony septum after the necessary surgical operation of section or removal of exostosis

4 After the removal of hypertrophic turbinated tissues or polypi, whether by the cautery or snare

5 Hypertrophies of the soft tissues without an operation, when worn for a sufficient time to pro duce absorption -N Y Medical Journal, February

TREATMENT OF CAROTID HEMORRHAGE -In a short article on this subject, in which he reports 4 cases, Mr Frederick Treves says

In the neck, pressure upon the carotid artery cannot be applied with success, or maintained for a serviceable length of time The vessel can, however, be very readily occluded for a while and the carotid circulation arrested without the artery being permanently closed This is effected by exposing the By pulling upon the loop the circulation through the vessel is at once arrested, but is, however, at once restored when the tension upon the loop is

The following case, in which the method was used, is especially interesting

A builder, æt 41 years, a man in excellent health, carried on for some time, were so encouraging that | met with the following accident On Dec 7, 1885, he fell from the scaffolding of a house in process of erection, a height of 26 feet He alighted upon the iron railings around the house, the points of these railings were in the shape of spear heads, and one of These tubes are oval in shape and of the same them penetrated his skull. The point entered just in size, with the exception of the anterior end, that is front of the left ear, and, passing through the maxilshaped so as to fit the vestibule of the nostril, and lary bones, emerged through the hard palate of the by that they are retained in place They are made right side, and, entering the mouth, broke one of the right upper molar teeth The railing, having impaled ameter, and in length from two and one-half to three the skull in this way, snapped off short, and the patient fell on the pavement with this enormous foreign body in his head The piece of iron actually within their caliber by passing through them a core of the the head measured five inches and a half in length, two inches and three quarters in breadth, and from ber, as it is more comfortable by its flexibility in the half to three quarters of an inch in thickness. There The small rubber tubes are was very free bleeding after the iron was removed, made use of at the beginning of the treatment and blood welling up from the wound and running from No pulse could be felt in the Then the left temporal artery, and it would seem pretty certain metal tubes may be used if so desired, as they allow that the external carotid artery had been torn across The tube is put into I at once put a catgut loop around the common the nostril by raising the end of the nose and gently carotid, and the bleeding was stayed when the loop No bleeding of any moment oc-On the They can not be seen externally, and fourth day a weak pulse could be felt in the left tem-On the seventh day the catgut loop was reporal The carotid wound healed without complimoved cation The man did well, and was able to leave the hospital some six weeks after the accident —Lancet, January 21, 1888

SUCCESSFUL EXCISION OF A TUMOR OF THE SPINAL Cord —Surgery is a science, or perhaps we should say a fine art, which will tolerate no limits to its do-It has of late taken up the invasion of the brain in earnest, it has just made its first successful dash at a tumor in the spinal cord Last Tuesday evening, before the meeting of the Medical and Chirurgical Society, a private patient of Dr Gowers and Mr Victor Horsley very generously allowed the Fellows and visitors of that Society the opportunity of seeing all that had been done for the improvement of his condition He had spent about three years in severe pain, which was most intense just below and inside the angle of the left scapula, and was accompanied by absolute loss of motion and sensation of the body and limbs below that level The upper border of the an esthesia was distinctly in the region of the fifth intercostal nerve on the le side, on the right it was less accurately defined, but did not extend higher All the symptoms agreed with those of tumors of the spinal cord, and the intense pain afforded ample justification for making an attempt to excise the tumor Mr Victor Horsley artery in the usual way and passing around it a thick accordingly removed the spines and parts of the piece of soft catgut. This is tied in a very loose laminæ of the fifth and fourth dorsal vertebræ, but not until the third vertebra had been similarly treated did the tumor come into sight It was a small oval myxoma compressing and making a deep impression on the left side of the spinal cord below the third vertebra It was easily shelled out, and under careful antiseptic treatment the temperature

did not rise more than 1° F rapidly, except at the uppermost point, where a rest to that organ, and by no other means drain had been left in by which a little cerebro-rectal alimentation we have a safe and sure means of spinal fluid flowed away very slowly four weeks the former acute pain did not lessen, and that organ — Dietetic Gazette, January, 1888 even at times seemed more agonizing, but after that it gradually and intermittently decreased, and now, after seven months, is entirely gone, the sensation and motion of the body and legs are almost com-pletely restored This is, we believe, the first time pletely restored that such an operation has been attempted, and we must, most heartily congratulate both the patient and his advisers on the triumphant character of its However far, and however quickly surgery may advance, it will long be a memorable day when it gained its first victory on so new a field and over so formidable an enemy -British Medical Journal, Jan 28, 1888

RECTAL FredING —From a study of the subject of rectal alimentation, DR WEAVER (Transactions of the Luseine County Medical Society) has formulated the following conclusions

1 By the use of enemata life can be sustained indefinitely with little, if any, loss of weight to the body

2 In a large proportion of cases in which rectal aliment is used, true digestion of albuminous, saccharine, and fatty food takes place, by virtue of inhaustion, or a reversal of the normal peristalsis of the alimentary tract

3 While this is the case, there are doubtless instances in which retrostalsis does not occur, and for that reason the food used should first be artificially digested before being injected into the rectum

4 While milk, eggs, and brandy are the best aliment for rectal nutrition, no one article should be used for too long a time, but frequent changes should be made, observing the greatest care to prevent irritation of the rectum, or intolerance of that organ for the nutriment required

5 The enemata should, if possible, be administered by the physician himself Where difficulty in retaining the aliment is encountered, the colonic method is preferable, the food being propelled through a rectal bougie temperature of the body

7 The rectum having once become intolerant of enemata, absolute rest must be given to that viscus for a few days, and reliance be placed on nutritious inunctions of the surface of the body

range of usefulness than has heretofore been as-It is not only appropriate in the ical scraping severer forms of chronic disease of the stomach and removes the thickened epithelium, in order to acesophagus, but is indicated and should be utilized in complish this several sittings may be required the management of all acute diseases when, from any cause, the stomach become intractable and rebellious

8 In diseases of the stomach, even where a portion of the food ingested is retained by that organ, only to undergo fermentation, inducing thereby glycerine, glycerine of borax, or a 10 per cent solupain and distress, it is more logical to resort to rectal tion of sulphate of copper is applied to the raw alimentation, not as an adjunct to, but a substitute surface for stomachal ingestion

9 Certain organic lesions as well as functional Lancet, Jan 7, 1888

The wound healed disturbances of the stomach are curable by means of For three or nutrition, pending the necessary period of rest to

> COLCHICUM IN THE URIC ACID DIATHESIS —In an address on the Therapeutics of the Uric Acid Diathesis DR I BURNEY YEO says that Dr Bartholow's description of the effects and uses of colchicum is

so complete that he has little to add to it

"The prejudice against colchicum has induced Ebstein to make the extraordinary statement that it is preferable to relieve the pain of the gouty paroxysm by hypodermic injections of morphine. He says they act "quicker, more easily, and with less danger The internal use of I join issue with him utterly opiates in gout I consider, except under exceptional In a disease of defeccircumstances, indefensible tive elimination, you would be giving a drug which depresses in a remarkable manner the function of all the excretory organs but the skin A very small dose of morphine will, especially in the gouty constitution produce clay-colored alvine evacuations, sometimes for days

Colchicum then, I maintain, is one of the most valuable remedies, when judiciously given, for most of the morbid manifestations of this "unc acid diathesis," and so far from being a dangerous vascular depressent, I have shown, in my hospital practice during the session just passed, that in a case of chronic gout with subacute exacerbations, moderate doses of colchicum restored regularity and strength to an irregular and feeble pulse I trust, then, that the absurd prejudice against this most valuable remedy which has been excited in the minds of the public will be removed, for I find many gouty persons who, much to their own disadvantage, positively refuse to to take colchicum, because they have been told it is, "such a dangerous drug"-British Medical

Journal, Jan 14, 1888

MECHANICAL TREATMENT OF SYPHILITIC ICHTHYO-The food should be of the sis -The syphilitic affection of the tongue and mouth known as keratosis or ichthyosis linguæ, or as leukoplakia specifica, which is due to unequal development of epithelium over different papillæ, and which is by no means a very easy affection to treat successfully, caustic, astringent and disinfecting ap-7 For rectal alimentation there exists a wider plications having but very little effect upon it, is, according to DR Horovitz, best managed by mechan-He uses a sharp spoon with which he scrapes away the indurated tissue until the surface presents the appearance of a multitude of minute bleeding points showing that the vascular loops in the papillæ of the dermis have been reached The pain is usually not severe, but in the case of sensitive persons cocaine can be used -

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THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor

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CHICAGO ILLINOIS

SATURDAY, FEBRUARY 25, 1888

NEW YORK STATE PROVISION FOR THE INSANE

The State Charities Aid Association of New York has recently done a very good work by the preparation of a bill, for introduction into the Legislature, that provides for the gradual transfer of the insane, both acute and chronic cases, from county and city poorhouses into the care of the State Its prominent features are as follows

- 1 The districting of the State into as many asylum districts as there are State Hospitals for the insane
- 2 The reception by the State Hospitals of all the pauper insane from all the poorhouses of the districts to which the State Hospital belongs, at a uniform weekly rate per capita, charged to the counties, for each pauper insane person so received, whether an acute or chronic case, of \$1.50. This payment includes clothing and travelling expenses, and the sending of a trained attendant to accompany the patient to the hospital. All cost of care and maintenance exceeding this rate is to be paid for by the State at large.
- 3 The erection on the grounds of the existing State Hospitals of a number of inexpensive detached buildings, sufficient to provide suitable accommodations for the chronic pauper insane now in the poorhouses of the State, at a cost not to exceed \$250 per capita These buildings to be erected, if possible, within one year after the appropriation is made

The elastic nature of the proposed measure, by which present and future needs are provided for, as regards overcrowding, size of buildings, etc., is an important feature, and it is to be hoped that this act will be passed, as it is beyond question that the insane

can be cared for much more satisfactorily in every way by the State than by the counties individually, the State hospitals representing to-day the very best standard of treatment that has been reached in this country. In addition, it is highly desirable that the measure should be adopted at this time, for a movement is on foot, backed, it is said, by certain local political influences, to secure special legislation by which a number of the counties in the State shall be empowered to take care of their own insane in county asylums.

At the recent meeting of the Medical Society of the State of New York, the President, Dr Alfred L Loomis, referred to this matter in his address. He contended that experience universally condemned the advisability of such county asylums, and recommended that the Society should take action upon the subject. The special committee appointed in accordance with the suggestion made in the address, consisted of Drs A Jacobi and C R Agnew, and they prepared the following very admirable report.

- r That until comparatively recent times the insane were considered and treated as criminals and confined in dungeons or prisons
- 2 Their subsequent retention in poorhouses was but a remnant and mitigation of the old system
- 3 The treatment of the insane has improved with the progress of civilization
- 4 Therefore special hospitals were supplied for them, and their welfare was entrusted to scientific and humane experts
- 5 To return to anything like the old system of treating the insane in poorhouses or relegating them to the custody of county officials, would be a grave mistake. As early as 1855, at a mong of the County Superintendents of the Poor, held t Utica, the following, among other resolutions, was assed
- "Resolved, That no insane person should be treated, or in any way taken care of in any county poor or alms house, or other receptacle provided for and in which paupers are maintained and supported" (55th Annual Report, State Asylum, at Utica)
- 6 For the proper classification and treatment of the insane more means are required than for the patients of general or even other special hospitals. Institutions for the insane, therefore, demand medical experts as superintendents, nurses trained in the general care of the sick and then in the special care of the insane, schools for the physical and intellectual training of the insane, for the practice of out-door and in-door industries, and many other appliances
- will be passed, as it is beyond question that the insane expresses, therefore, its objections to any plan or

law which in any way looks to the return of the insane to the county poorhouses as being unscientific and inhumane, and expresses its convictions that those institutions, like the State Asylum, which have Boards of Managers accountable to the State Government, and also to the public, are best adapted for the care of the insane poor of the State

This report was adopted by the Society, and also the following resolution

Resolved, That the above report on the treatment of the insane be sent to the Committee on Legislation of the Medical Society of the State of New York, with instructions to use it in its discretion, in the Legislature and elsewhere, to further the objects in view

In the discussion upon the resolution the following extract from a letter of Dr Jos M Cleveland, Medical Superintendent, Hudson River State Hospital, Poughkeepsie, N Y, to Amasa J Parker, Jr, President of the Board of Managers of the Hospital, was read as illustrating the progress that is being made in the scientific nursing of the insane, a kind of progress not likely to reach the insane if shut up in poorhouses

"Next month, (March, 1888,) we graduate four young women from our Nurse's Training School All four before coming here had graduated from a General Hospital Training School They will have been with us one year in March They have been very thoroughly instructed in mental nursing by lectures, class instructions, quizzes and clinical teaching They are bright, intelligent and full of ambition to become thoroughly equipped in all that pertains to a high order of nursing"

THE VALUE OF IODOFORM IN SURGERY

The year 1887 was prolific of iodoform literature, probably the more so because of the paper of Heyn and Rovsing, of Copenhagen, that appeared early in the year, and in which the surgical value of iodoform was denied The latest contributions to the subject are the papers of A Kunz (Ueber die Wirkung des Iodoforms auf Infectionsorganismen, in Ziegler and Nauwerck's Beitrage zur pathologischen Anatomie und Physiologie, Bd ii, Hft 2, Sanger (Ueber die Einwirkung des Iodoforms auf das Wachs thum und die Virulenz der Milzbrand-bacillen, Deutsche medicinische Wochenschrift, No 33, 1887), and Jeffries, of Boston (Anti-bacterial Action of Iodoform, American Journal of the Medical Sciences, January, 1888)

The papers of Kunz and Jeffries contain reviews of a number of bacteriological experiments are also interesting, as showing how bacteriological work is to be done, how evidence is to be weighed in this kind of work, and how clinical deductions are to be made Jeffries asserts that the experi ments of Heyn and Rovsing were free from errors of method, and were made in accordance with accepted rules In fact, the objections made to the experiments were, that laboratory tests are no evidence of what occurs in the body, that in these tests no iodine, by virtue of which iodoform acts, was set free "Strangely enough," says Jeffnes, "none have pointed out that the experiments only disprove a germicidal action, but do not exclude an inhibitory action on their growth The injurious effects of crowding are so great, in solid cultures, as soon to cover up any slight inhibitory action of the 10doform " The two most important points in Sanger's paper are that the presence of non-growing anthrax bacilli causes gelatine tubes to dissolve, and that 10doform limits the growth of the anthrax bacillus, and prevents its taking in a re inoculation

Until Kunz and Jeffries entered the field the whole question of the value of iodoform was in-The early writers noted that the volved in a mist drug had a distinct action on putrefaction, but the more recent writers failed to observe any action on pus-producing bacteria, while the majority of clinicians were decidedly in favor of the drug clusions of Kunz and Jeffries should have a direct It is evident tendency to settle the vexed question that clinical experience and laboratory experiments should lead to the same conclusions, else one or After his numerous experiboth must be wrong ments and somewhat exhaustive review of the literature of the subject, Kunz contents himself with the conclusions that iodoform will prevent septic intoxi-The conclusions of cation, but not septic infection Jeffries are of more practical value to the surgeon, for the reason that they tell more

- I Iodoform not being a germicide is not a fit substance to use to procure asepsis of instruments, materials, or wounds
- 2 Iodoform is allowable, with the present state of our pharmacopæia, in infected wounds where the true germicides are contraindicated, as by danger of poisoning or impracticability
- 3 As has long been known, iodoform has a decided tendency to stop serous oozing, and, therefore, may be indicated in wounds where the moisture threatens the integrity of the aseptic or antiseptic dressing

THE MEDICAL DIVISION OF THE PENSION

Bills have been introduced in the House of Representatives at Washington, proposing to increase the efficiency of the Pension Bureau by adding one surgeon and six medical examiners to the present force This would make the medical staff of the Pension Office consist of one medical referee, one assistant medical referee, three surgeons and twenty-four medical examiners, which would certainly seem to be as small a medical corps as could be reasonably expected to properly examine and supervise the immense number of pension applications that reach the Pension Bureau of this nation in these days bills also propose to increase the salary of the medical referee to \$4,000 per annum, that of the assistant medical referee to \$3,600, that of the three surgeons to \$3,000, and that of the medical exammers to \$2,500 These propositions, both to increase the number of members of the medical staff of the Pension Bureau, and to increase their salaries, should be adopted without opposition from any one, for the proper discharge of the duties required demands thoroughly qualified medical men, and such cannot certainly afford to accept those positions for less pay

SOCIETY PROCEEDINGS.

SUFFOLK DISTRICT MEDICAL SOCIETY Stated Meeting, January 11, 1888 SECTION FOR CLINICAL MEDICINE, PATHOLOGY AND HYGIENE

THE PRESIDENT IN THE CHAIR Dr. W N Bullard read a paper on A CASE OF CEREBRAL LOCALIZATION WITH DOUBLE TREPHINING

(See page 228)

DR J J PUTNAM said Cases of brain operation are rare, and we should learn from them all we possibly can Although as Dr Bullard has said, we can through our knowledge of certain portions of the brain, localize with considerable accuracy certain lesions, especially those involving the motor functions, it is, on the other hand, I think, very difficult to tell what the nature of the lesson is, and the exact relation of the disease to the symptoms difficulty of determining at what depth a tumor lies, the fact that tumors which grow very slowly so often occur almost without symptoms, and our ignorance of many of the conditions that govern the occurrence

although the case before us is highly interesting and justified. Dr Bullard's claim in regard to it, that the diagnosis as to the lesion was made during life, it cannot count as one where much benefit could have been hoped for In these congenital troubles, I don't see how we can expect to produce a result that would be particularly favorable unless we can operate upon them very early And then the trouble comes in that the difficulties of early localization are greater than at a later time The rapidly developing brain of the child is so susceptible to permanent injury, its growth is likely to be retarded, and an atrophy involving not only the seat of the lesion, but that of the whole hemisphere of the brain is liable to follow from any injury received at birth, or in the very early years of life Moreover, the fact that localized lesions, even if they might have been removed soon after they occurred, give rise to secondary changes not only in the hemispheres of the brain, but in the deeper lying tracts, would, it seems to me, render this class of cases not a favora-

ble one for operations of this kind

In regard to the operation itself, of course the points are many and interesting, and I would not attempt to touch upon them at any length mark made in connection with a case operated upon in New York struck me as significant. It is important that the opening in the skull should be large, that quite a window should be cut, instead of the ordinary trephine hole, the belief being that under those circumstances the brain is less liable to protrude from the opening, and that the wound is more likely to heal favorably I recently saw a specimen from a case in New York, which unfortunately termmated unfavorably, where, although no suppuration had taken place and no sign of septic poisoning showed in life, the patient died from what was considered as red softening, immediately beneath the seat of the operation without it being possible to discover any cause for it The brain simply became softened, that was all one could say about it has usually been considered that serious results from operations are not likely to occur Dr Spitzka, in experiments on animals, has gone further than that, and says that not only are unfavorable results not likely to occur, but a second operation in the same region is even less likely to do harm

I cannot help saying a word about a case that I saw myself, which seems at once an illustration of the difficulties in the way of the diagnosis of cerebral tumors, and also of the possibilities of cerebral sur-It was the case of a woman that exhibited through life no localizing signs except toward the end of her life a slight facial paralysis on one side yond that she had an intense headache, and a progressive stupor She died, and at the autopsy a large sarcomatous tumor was found pressing apart the sides of the fissure of Sylvius, having caused no real injury beyond the pressure, to the brain itself. and being attached to the dura mater on the sphenoid bone with very slight attachments If the tumor of symptoms, would seem, I think, to make us very could have been reached it certainly could have properly cautious in raising any very sanguine ex-been removed without injury, I think On the pectations about the result in most cases And other hand, it had grown to the size of one-half or two-thirds of one's fist, without it being possible to diagnose it as central or cortical

DR MORTON PRINCE said In regard to the possibilities of the operation, I feel like being a little cautious, as if we must not go ahead too fast don't yet quite know what the possibilities of brain surgery are There are certain fixed principles upon which, in the light of our present knowledge, brain surgery must be based These are that an operation should be undertaken only for the removal of a lesion causing symptoms of irritation, or threatening the life of the patient All operations thus far have A brief survey of been based upon this principal these cases will make this clear Up to this time they have been reported only fifteen cases of pure Of these, eight were cases of tumor, of which only three survived the operation, and of these three one died later from recurrence of the In the remaining seven cases, the operation was undertaken for the removal of a supposed lesion causing epileptic fits, in these seven cases there was recovery from the operation itself. It is interesting to note that the operator in these latter cases as well as in the successful cases of tumor was Victor Horsley, who is the only operator, I believe in whose hands the operation has not ended fatally He has operated nine times with only two deaths In one of his cases only was death the immediate result of the operation, and in this case it should be said that the patient was in a very critical condition fied at his success in localization in this case when the operation was undertaken The second death (the one just referred to) was due to recurrence of the tumor In the seven cases operated upon for epilepsy due to irritative lesion, there was complete and permanent cessation of the fits in four cases, and more or less improvement in three In this latter class of cases the operation was undertaken with the idea as of removing the diseased tissue which was regarded the point of irritation and the exciting cause of the fits Now it will be seen that the principle underlying all these operations was that there was a lesion of the brain, causing not merely paralysis and loss of function, but aggravating irritative symptoms, or else threatening life one case the fits aggregated three thousand in two To operate upon the brain in such cases as these I believe to be sound surgery and sound neurology, and there seems to be a legitimate, even if limited field in this direction, and perhaps a brilli-Time, however, can only settle this ant future But when we go from this to cases of paralysis, and that too with spastic symptoms, I confess I feel very doubtful I am unable to see on what sound principle of neurology, operation in such cases can be I am unable to understand how a pure paralysis due to a hole in the brain is going to be improved by making the hole bigger All that we could do by operation would be to cut out more brain, and that is equivalent to enlarging the lesion, and would simply increase the extent of paralysis Furthermore, when spastic symptoms of long standexists secondary degeneration extending down along indication for interference, and that is in hæmorthe direct fibres through the motor tract to the cord, rhages from fracture. In a diagram in which the

and it is to this secondary degeneration that the spastic condition is due Mere removal of the cortex could not then in any way relieve these symptoms

There is one point of which the reader spoke and which I think should be emphasized still more, and that is the necessity, if you are going to operate, of taking into account only the symptoms themselves in localizing the lesion That is, the proper localization depends entirely upon the grouping of symptoms, and it is only by such grouping that we can localize the disease It makes no difference where the original injury to the skull is situated, and this This seems a trite reshould not be considered I rememmark, and yet I think it not uncalled for ber seeing a case the other day, a case of aphasia, where the trephining was done on the top of the head, attention being directed to that spot on account of a former accident Of course the lesion must have been lower down

Perhaps there is another class of cases where there is a possible field for this operation, and that is where, in cases of this kind, there is not only paralysis of one or more members, but where there is also athetosis or clonic localized spasms of severe type I saw a case of this kind some time ago I suggusted the operation, but did not see the patient again I think perhaps in that case something might have been done I do not say this to criticise the paper, for I think the reader should be highly grati-

I have very little to Dr J Collins Warren say, but have studied this matter up a little I was struck by what was said about the caution with which we should go ahead in this region of surgery think that corresponds pretty well with the writers on this subject, especially in works on surgery They say that the study of the cerebral topography, and the physiological action of these centres indicates rather what not to do than what to do say, the opportunities for interfering and trephining are comparatively few as compared with the indications when we should abstain, and yet many of these indications might tempt one, ignorant of cerebral topography, to interfere and relieve pressure or something else there For instance, if we have injury with symptoms of paralysis, which correspond to that tract, not too extensive, that might perhaps be a reason for interference If, for instance, after a blow, we have paralysis of the arm and leg, that might be an indication for trephining at the upper But if we have portion of the fissure of Rolando total anæsthesia, not only is the motor tract involved, but an indefinite amount of brain convolution behind the ascending parietal That is, it is an unknown quantity, a considerable surface, so that in order to reach that surface we would have to put on four or five trephines side by side, in order to uncover it and relieve it. There it would be contraindicated Limited paralysis or anæsthesias, with well defined injuries, give the indications for interference in a surgical case

From the surgeon's point of view there is one other

the exact point crossing the middle meningeal artery, that point, and get at the artery comparatively near put the trephine on the same horizontal line but rior, in some cases The reported cases are, I think, else a considerable number, although I cannot quote them

Dr Prince spoke as if trephining for epilepsy were I think that it is an opercomparatively a novelty ation that has been done considerably, although perhaps done in a different way, such as trephining for simple and depressed fractures, I would like to ask if there is any special localization, other than the determination of the seat of the depressed fracture?

I referred to a different form of DR PRINCE Not merely trephining, but removing a to suppose that there is a gross lesion Hughlings Tackson has suggested that in cases of epilepsy and the beginning of the convulsion to a focal point in centre as the focus of the epileptic discharge the thumb, and to progress in a definite order throughout the body, in that case the centre for the thumb will be found to be the seat of the most intense dis- lowing charge, and he considers it good neurology and surgery to remove this centre Acting upon that advice, Dr Horsley, in one of his cases, did remove the centre for the thumb, with the result that he cured It is in that sense that I speak of brain surgery as being a novelty, and it is in this field that perhaps there is a considerable opening for the future

DR S H WEEKS, of Portland, said

If I may judge from my own experience and observation, the operation of trephining the skull is not attended with as much danger as is supposed recall a case (and I wish I could detail it more acmonths ago, in a young man who was having epileplowing an injury which he received when a lad, some the benefit would be much greater fourteen or fifteen years ago He was riding a horse for raking hay, and was suddenly thrown from the horse, and as the rake revolved one of the teeth, made of steel, struck his head near the bregma and discussion I think a little to the right of the median line with depression moved some portions of the skull

middle meningeal artery is represented, we can see but I hope some time to report the case, that you how, by measuring back from the external angular may have the exact measurements and symptoms, process three and one half centimetres, we can strike and derive more advantage than from any recital here now I am sure that the convulsions first started and if we were to have symptoms of pressure in that in the hand, and then extended into the arm, and part of the brain substance, for instance, of facial then involved the entire side. He had been at the paralysis, we could readily interfere, and trephine at hospital once before, and after consultation we refused to operate He went home and suffered an-If we found that there was any difficulty other year, and his convulsions becoming very freat that point, but it appeared that there had been a quent, he again returned, and said "If there is anyhæmorrhage from the artery, the indications are to thing that you can do, I want it done, no matter what the risks or dangers are " At the second conmore posteriorly, because the blood clot may be in sultation we decided to operate I repeat this more the posterior part of the brain rather than the ante- to show the safety of the operation than anything Making an incision through the skin, I found that there was a portion of the skull that had not been restored, and here the scalp and dura mater were adherent I dissected off the scalp from the dura mater, directing my dissection as well as I could so as not to open into the cavity of the arachnoid, and came to the edge of the bone, which seemed to be indented, and then took out a section of bone Not finding a depression there, I felt that I had not reached the difficulty, and took out another portion, and upon that button there was an exostosis from portion of the brain, even when there is no reason the inner surface to the extent of three or four lines, extending down on to the dura mater and firmly ad-After I had loosened the segment of herent to it epileptiform convulsions, where you are able to trace bone, finding this projection adherent, I was obliged to take out an elliptical portion of the dura mater in the cortex, it would be justifiable to remove that order to remove the bone. I brought the edges of the dura mater together with small catgut suture. example, suppose the convulsion always to begin in and then closed the external wound, applied a simple dressing, and put the patient to bed

There were almost no unpleasant symptoms fol-In fact, so comfortable was he after the operation, that he would sit up in bed in spite of my cautions, and declared that the only thing that he was kept in the hospital for was to let his hair grow I believe the danger in trephining is not as great as we have supposed And while there are many diseases that we may not be able to cure by brain surgery, yet I believe there are many cases which are capable of cure, or of being benefited by these operations One word in reference to the future of this patient While the fits were not cured, they were very much mitigated I saw him a few weeks ago and inquired particularly for the sympcurately than I am able to), that I operated upon at toms, and he said that once a month or so he would the Maine General Hospital some year or eighteen have a slight convulsion, but nothing to compare with what they were before, and were it not for his tic fits every week, and sometimes twice a week, fol-intemperate habits, which he continues, I believe There are other cases that I think of, but I will not relate them thank you for your courtesy and kindness, and shall be very much interested in listening to the further

DR P C KNAPP said I have been very much the time there was a compound comminuted fracture interested in the paper as showing the very exact lo-The physicians at the time re-calization of the lesion I would agree with Dr The wound Putnam and Dr Prince in what they have said healed, leaving a cicatri, and in the course of a year There is one point, however, that seems worthy of or two there commenced convulsions, first in one notice, and that is the fact that although there was hand, and I am sorry that I am not able to say which, apparently a lesion in the cortex, which is so common in these cases, there were no convulsions at there was no disease whatever, where there was any time in the history A year and a half ago Dr Sachs, of New York, laid special stress upon the presence or absence of convulsions as an important one he removed not only the tumor, but also the symptom in the localization of the lesion of intra-cerebral hæmorrhage or embolism, he be- lesion lieved that there were no convulsions, but in cases where there was cortical disease, he believed that report, when he came to open the skull he found no convulsions were present

This case, I think, is of special interest, as showing the presence of probable cortical disease and entire absence of convulsions I would say, moreover, that as the case was reported, I do not see what justification there was for either operation Certainly the cica-'trix on the right side caused no symptoms, and after so long a duration there was no evidence of any disease there to be operated upon Nor do I see what could have been gained in any way by operating upon the reported in which there was no gross lesion other side, for the symptoms were those merely of paralysis and secondary degeneration, and no operation the different functions of the brain, I recall a case whatever could have helped the patient

I agree with Dr Prince fully that, in case of convulsions or athetosis, perhaps there might be benefit in removing portions of the brain substance, but certainly there is one point that might have a bearing in such cases In some cases that I have seen, where the limb was only partially paralyzed, there were loss of the power of speech. It was at the time athetosis or convulsions starting in the hand Here, if you were to cut out the centre for the hand, which was the chief seat of the lesion, you would produce absolute paralysis of the hand, this would deprive the child of a fairly useful hand, and would leave him in a less advantageous position for getting through the world than he was in before

Of course, in localization we refer interest DR PUTNAM chiefly to cortical localization It seems to me, however, that this case is one where localization of that found the dura mater at that point a good deal conkind is really not possible. What we had present was a hemiplegia, apart from the secondary changes The aphasia, I take it, would count for little or nothing, for the child had never spoken Even if that were not so, the function of speech would be probably sooner lost in a child's brain than in an adult's, so I cannot see how we could strictly localize the It was evident that it involved structures either so extensive or so far beneath the surface as to include all the tracts coming from the opposite theory of the localization of the seat of language side of the body, that is to say, it must have been a very extensive cortical lesion, and in that case not strictly localizable, or else a moderately deep-seated injury, and I do not see how it would be possible to localize it with certainty in one part rather than another of the motor tract, except that we might per- fracture or other injury, has so great a future as, perhaps say that it was not in the pons

I would like to ask Dr Prince one DR KNAPP portions of the cerebral cortex where the convulsions always began in one portion of the body, he said that Hughlings Jackson advised it whether he recalls any case in which Mr Horsley about decided pressure symptoms, in which we feel operated where there was no gross lesion of the brain? It seems to me that in every case he found some there are certain localized abscesses which can be thickening of the meninges, or a tumor, or some-operated upon with advantage All these lesions thing of the sort I do not recall any case where must be decidedly near or at the cortex, or we are

simply the functional disease starting at that point

DR PRINCE There were, I think, two cases In In cases | thumb-centre In this case he diagnosed a doubtful He knew that there was a lesion, but was in doubt as to its exact nature As I understood the lesson whatsoever, but he still removed the portion of the brain corresponding to the seat of the epilepsy At any rate, Jackson advised it, and said that he would advise the operation in the future It seems to me that this is a sound principle to go upon simply as a theory in a very grave case Of course you would not operate upon a case of that kind unless it were a case that justified some risk

> I did not know that a case had been Dr Knapp

DR WEEKS In speaking of the localization of that came under my observation several years ago, where a man who had organic disease of the heart was taken suddenly with aphasia, and the sickness lasted only two or three weeks His sickness increased day by day, manifesting decidedly cerebral The most prominent symptom was the symptoms when the discussion as to the seat of language was going on in the medical journals and societies, and when the medical opinion was not as well satisfied as now in regard to the localization, and yet my attention had been called to the anterior portion of the left hemisphere, the temporal lobe, as the seat of language, and I watched the case with a good deal of When he died, I was successful enough to get an autopsy and, on taking off the calvarium, I gested, and on opening through the membrane, and going through a very thin portion of the cortical substance of the brain, I came to a large abscess Now I believe that to-day, if you had such a case as that, you would operate upon the abscess and give exit to the pus, and in such a case as that I believe you would save the life of the patient Here was the seat of the lesion, and, so far as any case can prove the theory, certainly this goes to substantiate the

I am quite agreed as to the impor-Dr Walton tance of the surgeon's being prepared for early operative interference in just the cases that are indicated I do not think, however, that this variety of cerebral surgery, where the healthy skull is trephined without haps, was hoped for it at first, certainly no such future as abdominal surgery, for the cases are really In speaking of Mr Horsley's removing limited in which the operation is sufficiently indicated I agree with Dr Prince that, as we eliminate the cases, we shall finally become pretty well sifted down I would like to know to lesions that are irritant, and lesions that bring pretty certain that we can relieve pressure

not justified in operating there will be so few cases in which we will feel ourselves justified in operating, that opportunities will be rather rare We have been on the lookout at the Massachusetts General Hospital for an acceptable case, and I fancy it has been true at the other hospitals, and there has not been, so far as I know, any case admitted The nearest we have come to it was one case in which we did diagnosticate a tumor in the cortex There was paralysis or partial paralysis and, if I remember rightly, convulsions of one arm, in which we were sure that the tumor was at the cortex, and advised operation, but the patient demurred

I was interested to hear Dr Putnam speak of a considerable opening in the skull. I think it is important to make as large an opening as possible, not only for the sake of after-results, as far as the case 15 surgically concerned, but also for the sake of helping us to localize My attention was particularly brought to that point by going to the demonstration of Drs Warren and Richardson, last evening, in which the skull was trephined on the cadaver and the fissure of The fissure was localized according Rolando found to the regular method, the opening made perhaps three-quarters of an inch in diameter, and directly in the middle of the opening was a fissure, but it seemed to me at almost right angles with the direction one would suppose it to go But, on removing the calvarium and dura mater, it was afterwards discovered that it was the fissure of Rolando, but it had taken a turn at that point It is not always so easy, even after the brain is removed, to determine just where the various fissures are, as sometimes those fissures which should be the most distinctly marked are the least so, and other less important fissures become more marked And in this case I should say that the frontal fissure was much more marked than the fissure of Rolando

Dr Bradford I did not have the pleasure of hearing Dr Bullard's paper, but he has allowed me to read it and I think it covers the ground pretty thoroughly It only remains for me to say what the reasons were for performing the operation I think some apology should be made for an attempt at an operation on a child who was idiotic The oper ation was done in this case chiefly for the reason that it was hoped that the spastic symptoms might be re-The parents were told distinctly that it was lowing the operation lieved purely experimental surgery, and they wanted to have the operation done, even on those grounds withstanding that, in these cases of spastic paralysis, the cortical substance is in a large number of cases involved, it was hoped that possibly some irritative centre might be found, and the removal of that might relieve the spastic paralysis of the leg and arm, and render the locomotion of the child better The result proved that the operative interference was not justified except as an experiment The cause of death in this case is, I think, somewhat interesting The child died, unquestionably, of shock, and the question arises whether the double trephining may

The result will be, that better to have trephined in one locality, and waited before trephining in the other It did not seem so at the time, and the double trephining was undertaken, trephining over the cicatrix to satisfy the parents, who believed that the condition was in some way due to the depression of bone Both Dr Bullard and I thought not That double trephining may have given rise to the shock

Another cause of death may have been the use of morphia before the operation The child was given morphia subcutaneously or by the mouth a short time before the operation, carrying out Mr Horsley's idea for the purpose of contracting the vessels in the I think a larger dose was given than would have been needed, 12 of a grain was given, and I think $\frac{1}{20}$ would have been better At any rate, during the etherization the child was more or less under the influence of the narcotic That may have acted injuriously, although the child came out from the ether and morphia before dying

Another cause which may have given rise to death was bleeding from one of the larger vessels in the diplæ during the operation That was plugged by a piece of wood, but the child lost some blood think, so far as we can judge from the single case, it would not be desirable to do a double trephining in a child

Dr M H RICHARDSON said It seems to me, as Dr Walton has said, that the probable future of cerebral surgery does not promise the results that we get in other parts of the body, the peritoneal cavity for instance My own experience in trephining for the sake of finding an abscess, for removing a possible irritating cause of epilepsy, has been uniformly unsuccessful I reported two cases a year ago of trephining for epilepsy, and another for cerebral symptoms after compound fracture, without any benefit whatever And since then I have trephined to evacuate a probable abscess after a gunshot wound, a good case for symptoms arising after injury In the latter case death followed, and in the first two cases there was no benefit whatever It seems to me in a certain number of cases, where symptoms of definite localized irritation can be made out, at present it is the duty of the surgeon to interfere on the chance of doing some good But it seems to me that, as matters now stand, the chances are that in a large number of cases there will be no permanent benefit fol-

Dr Bullard I agree entirely with Dr Prince and Dr Putnam in regard to the fact that we should not be too fast in brain surgery I think that nobody who has had anything to do with the localization of lesions fails to understand the difficulties and the many problems we have to consider, and the very small number of cases in which we are justified in operating But it does seem to me that such a class of cases exists, and although the most prominent cases are those where convulsions or irritant symptoms follow, yet we must not limit ourselves to them entirely Ross says that the larger number of hemiplegic cases and convulsions come on at least by the not have been more than was proper to have done time the child has reached 8 years, or sometimes a It is a question whether it might not have been little later. I have not experience enough to know whether that is true, but it is certainly true that, in a contented, and went to sleep in about an hour certain number of cases of spastic hemiplegia, the convulsions do come on later Now I should be very slow to advocate operation in cases of spastic hemiplegia unless there were some special reason for doing so beyond the mere fact of the existence of a hemiplegia, but I believe that there may be certain cases where it would be advisable to perform the In this particular case I think we had good ground for localizing the lesion as we did course I have not gone into all the details A good many symptoms were absent which would have been likely to be present if the lesion had been in other Of course, in such a case, the parts of the brain operation is done with the understanding that it can only be experimental

DR BRADFORD The sense of the meeting seems to be in disparagement of cerebral surgery think we shall put ourselves in the line of modern surgery if we take the ground that cerebral surgery has not a future, and I think we can anticipate a brilliant future for it We are only in the beginning and I think what has been done shows that there is a great deal more to gain when our experience is greater I think it is in the recollection of most of us here, that here in Boston the statement was made on the best urethral caruncles were removed, and a uterine case, surgical authority, that ovariotomy was not a justi-We have lived to see that dictum fiable operation not accepted, and I think we will find that cerebral minims surgery has a future before it that we have not yet in a case of chronic nephritis with insomnia. A pathought of

DR GEORGE B SHATTUCK then reported some

cases of Family Ataxia

DR FRANCIS H WILLIAMS exhibited the new drug,

AMYLEN-HYDRATE

and he said This substance may be used a a substitute for chloral It has a peculiar odor, something like ether, and the taste is camphor-like, with an after-taste of peppermint It is a clear limpid liquid, and is fairly soluble in water It takes about eight parts of water to dissolve one of the drug, and is quite soluble in alcohol drachm to a drachm, 3 to 5 c c It does not act so strongly as chloral, it is not so powerful a drug, but on the other hand it is free from some of the dangers It does not act to depress the heart and respiratory centre as much as chloral does, and for In many cases it that reason is a safer drug to use seems to work well, in a smaller number it has not In one case for example, in been very efficacious Dr Mason's service, 40 minims of the drug were used in a uterine case where the patient had slept very poorly for several nights She had some pain One-sixth of a grain of morphia, repeated, was not able to give her the required sleep This new remedy most was the remarkable absence of after-effects after was given at 10 o'clock and she slept nearly all night As a rule the aftereffects are not unpleasant Here and there a few inconveniences are experienced from it In one or perienced a pleasant sensation for an hour as though paraldehyde, and the eructations that rise after its two cases the remark was made that the patient exdrunk, and was somewhat silly In this case she felt use and the very great difficulty of mingling it pleas-

will not do more than call your attention to the drug and suggest that for certain cases it is likely to be a valuable substitute for chloral, but a better reason for not saying more about it is that perhaps Dr Mason will be kind enough to tell us something of his experience in using the drug. I have reports of cases in which it has been used in Germany, and in about 80 per cent of the cases it has proved satisfactory Unpleasant after-effects have not been noticeable

DR A L MASON said I have a brief memorandum of some of the cases, but I will not delay you with it at present except to say that they were all cases of marked insomnia There were two cases of rheumatic fever, with heart complications, in which we obtained four hours' sleep In one case of severe measles four nights of uninterrupted sleep were obtained One restless typhoid patient was not quieted by urethan, chloral, bromides or opium Drachm doses of amylen-hydrate gave a good night's sleep A case of acute tonsillitis, sleepless for four nights, and another patient with dyspnœa, slept well after half a drachm A case of abortion obtained good sleep for five nights

Another patient who had sleepless nights after in which one-sixth of a grain of morphia, repeated, was of no avail, had a good night's sleep after 40 And the same dose answered the purpose tient with cardiac insomnia, who had been treated with everything else, has had from five to seven hour's sleep after this drug It effect appears better than It seems to be free that of paraldehyde or urethan from the disagreeable after-effects of chloral or opium The sleep usually comes within twenty minutes after it is given No ill effects were observed There was mild intoxication in a few instances

These cases are, of course, too few in number to draw conclusions from them as to the power of this drug I believe it is not yet in our market and probably Dr Williams has had the only specimen

DR ALBERT N BLODGETT If it is in order I would The dose is from half a like to say a word for paraldehyde that has been mentioned in connection with the new drug presented to-night, and which has previous to this seemed to be the drug which has produced better results than any other of that character Of course, when I say "of that character," I mean a drug which is a simple hypnotic and not a sedative like opium Paraldehyde has on several occasions, under my observation, produced a sleep which seemed to me more restful than that produced by any other hypnotic except perhaps urethan, and the latter seems to me less efficient, as it soon loses its influence, whereas paraldehyde seemed not to lose its efficiency What pleased me At 10 15 she was asleep, paraldehyde, which has been mentioned as pertaining That seems to me to be an also to this new drug important advantage for we don't know how long it may be necessary to use it, and the use of other drugs might not be desirable. The nauseous taste of antly with other substances, are serious objections to

its employment

DR WILLIAMS This new drug does not seem to me to be as disagreeable to take as paraldehyde That is one advantage that it has, and I think it is a rather stronger drug

OBSTETRICAL SOCIETY OF PHILADELPHIA

Stated Meeting, Thursday, February 2, 1888 THE PRESIDENT, T M DRYSDALE, MD, IN THE

DR B F BAER presented the specimen and read the report of a

CASE OF NON-PAPILLARY INTRA-LIGAMENTOUS CYST, ENUCLEATION OF ENTIRE TUMOR IN THE RIGHT BROAD LIGAMENT, OF LINING MEMBRANE ONLY IN THE LEFT

Sessile tumors, whether cystic or solid, are always more or less dreaded by the operator because of the greater difficulty and danger attending their removal, and also because, in the case of sessile cysts, the results as to the permanent relief of the patient is less the vagina, which would afford her great relief certain than where the tumor has a pedicle ically and pathologically, therefore, these cases are of great interest and importance

Pain and hæmorrhage, are the important subjective symptoms The former is usually present, sometimes in great severity, the latter is at times alarming in the quantity of blood lost and in the frequency of This is not surprising when we conits recurrence sider the close relation which these tumors sustain to the uterus and to the otner pelvic organs and tissues The wedging and pressure which results from the left ovarian region growth of the tumor in the limited space produce great congestion of the blood-vessels from stasis. The uterus becomes enlarged and softened in consequence and metrorrhagia follows, but the hæmorrhage is conservative to a certain degree in relieving the distended vessels, probably averting rupture of a vein in the broad ligament or in the tumor pain which results from the stretching of the nerves involved is also relieved or modified by the depletion following a free hæmorrhage from the womb the conservative line, it sometimes becomes uncontrollable and results in acute and serious anæmia.

the hilum of the ovary or from the Wolffian relics in the broad ligament are usually papillomatous, but that non-papillomatous sessile cysts infiltrating the broad ligament are not infrequently met with is shown by the following statement from that author be ascertained, none of these contained glandular wedge between them

matous growths, the result possibly of stray Wolffian relics I have presented at least one such specimen to this Society, and I have seen others On the other hand the multilocular ovarian cyst without papillomatous material has been found, in rare instances, to have invaded the hilum and broad ligament in its Doran records two such cases He says, I have seen two cases where a sessile cystic tumor of the ovary was removed, and this proved to be an undoubted case of glandular cystic disease invading the hilum and broad ligament "

The case which I here report is probably another

instance of this pathological anomally

Mrs J was sent to me by Dr O H Adams, and entered my private hospital in April, 1887 She is 32 years of age, married, and has had three children, the last two (twins) eight years ago Following her last labor she had puerperal mania, which necessitated her confinement in an insane asylum during Four years ago she began to have four months attacks of sharp pain in the right ovarian region, radiating to the groin and down the anterior portion of the thigh The pain was intermittent in character and cramp-like, lasting hours at a time, and was usually followed by a purulent, fetid discharge from other times the attack would end with a profuse metrorrhagia, which would leave her pale and weak, but free from pain About two years before coming under my care, she first noticed a "lump" in the right groin which has gradually increased in size time after she noticed a similar growth above the left groin She was considerably emaciated and looked very ill

Examination revealed a tumor as large as a child's head in the right iliac region and a smaller one in the The tumors seemed to be fixed in the pelvis and to have a broad base attachment They were immovable below but mobile above, and semi-fluctuating Vaginal examination showed them to be so deeply attached in the pelvis and so intimately related to the uterus that I was unable to complete my diagnosis without anæsthesia patient was therefore placed in bed and ether administered, when it was found that the uterus was elevated by the tumor on the right side, with which it was connected There was evident fluctuation though the the flow once started does not always remain within tumor was thick-walled and very firm, almost hard The lower surface occupied the position of the broad ligament at the side of the uterus The same condi-According to Doran, sessile cysts which arise from tion existed at the left side, but to a less degree diagnosticated sessile cystic disease of both ovariesor broad ligaments, and advised immediate operation.

to which the patient gladly consented

On April 13, 1887, I proceeded to operate, being kindly assisted by my friend, Dr Daniel Longaker "In 24 cases where I assisted at the operation, sessile | When the tumors were exposed they were found to cysts infiltrating the broad ligament were removed, be so closely connected with the womb that they more or less completely, but their origin could not seemed to be one with that organ, which rested as a The Fallopian tubes exgrowths, most were multilocular, but papillomatous tended outward over the upper surface of the tumors, growths did not exist " (Tumors of the Ovary, etc., while the broad ligaments and the greatly distended p 68) Further the ordinary pedunculated multiloveins of the pam piniform plexuses were expanded cular cyst of the ovary sometimes contain papillo so as to apparently envelop them, the whole presenting a dark purple appearance, which was not at all After separating some slight adhesions on the posterior aspect of the larger tumor, and rolling it forward, the nacreon surface common to the multilocular ovarian cyst was exposed to view lecting a spot on this free surface because it was less vascular, I now plunged a trocar into it, when about two pints of a tarry-looking fluid drained away more thorough investigation which the diminished size of the tumor now afforded, showed it to be adherent to the cacum also Previous to beginning the enucleation, I passed a long blunt needle charged with a double ligature through the expanded broad ligament at its least vascular portion between the uterus and the tumor, and as far below the Fallopian tube as could be done with safety side of the ligature was then drawn up and tied close to the uterus, including within its grasp the tube and Thus insured against hæmorrhage from that source, I now cut through as far as the ligation extended, and continued the enucleation down to the base of the tumor, and then outwards, finally separating it from the head of the colon was some bleeding from the numerous veins which were broken, but this was readily controlled by catch- ran diagonally towards the splenic region. It entered forceps and ligatures

Attention was now given to the tumor on the left This was found to be deeply imbedded in the pelvis and firmly fixed to the uterus, Fallopian tube, descending colon and rectum The upper surface was covered with a net-work of distended veins, some of them as large as a quill Enucleation of this tumor seemed too hazardous and hysterectomy was out of the question, for to do the latter the tumor must first be dissected from the colon and the pelvic floor, which was not practicable I determined, therefore, to evacuate the contents of the cyst by aspiration, and then to shell out the lining membrane, or, failing in this to insert a drainage tube But while endeavoring to find a position for puncture my finger passed into the tumor, low down on the posterior border of the broad ligament Instantly the parts were flooded with a tar-like, semi- peared, apparently by being incorporated with the fluid substance similar to that which had been tumor and by having its connective tissue and fat reevacuated from the cyst on the right side removed as quickly as possible by sponging I then passed my finger through the opening which I had large bundles, and had all to be ligated thus accidentally made, and after a careful and gen- the tumor had evidently been mourished, for what tle dissection succeeded in removing the entire looked like a pedicle was slender, long and twisted Blood was now flowsecreting surface of the cyst ing from the small valvular opening in the broad Goodell did not dare follow it up to its source ligament, but as it was apparently venous I hoped diagnosis had been sarcoma of the omentum, but he to check it by compressing the now flaccid folds of was so uncertain of it that he sent the specimen to the broad ligament, for this purpose several large Dr Formad, who pronounced it a leukæmic spleen sponges were inserted and external pressure made It weighed not quite 6 lbs upon them while the abdominal sutures were being four days, then symptoms of embolism set in, the The sponges were then removed was still a slight flow of blood, but as it was doubt- the sixth day less only a venous oozing I concluded to close the ature on the subject, his case was the eighteenth in wound and trust to pressure and the drainage tube The patient was placed in bed and the tube care- all had died save one fully watched During the next two or three hours several teaspoonfuls of quite bloody serum passed operation for removal of a leukæmic spleen spoken through it, after forty-eight hours the tube was re- of by Dr Goodell had occurred under Dr Franzomoved

This patient made a slow, but good recovery, and went home six weeks after the operation She has been entirely relieved of her former sufferings, and the loss of weight and strength have been regained

DR WM GOODELL reported

A CASE OF SPLENECTOMY

Mrs R, æt 40, had chills and fever in early life. but after her marriage eighteen years ago she removed to a healthy country town and had no return She has had two children, the youngof the disease est seven years ago At this labor she had a serious flooding and was confined to her bed for six months from excessive prostration Since that time she has never been well, being weak and miserable Her monthly periods were always free and generally pain-Last March she had a very severe attack of what her physician called malarial fever, and her life was threatened by repeated attacks of hæmatemesis and hæmoptysis A sore tumor was now discovered, which was pronounced to be a uterine fibroid, and she was sent to Dr Goodell He found the womb pushed low down and retroverted by a solid tumor, which started from the region of the right ovary and the pelvis so low down as to cause bulging of the an-The womb seemed to be terior wall of the vagina independent of the tumor, for the former could be moved about freely with the sound, yet when the tumor was pressed upwards it conveyed motion to the womb, drawing it also upwards The tumor was never free from pain and the complexion of the woman was markedly cachectic The diagnosis was made of sarcoma either of the right ovary or of the omentum

At the operation very long incisions were needed, reaching not quite up to the ensiform cartilage tumor was of a dark purple color and was attached in every direction by very long, tortuous and wholly denuded vessels, which looked like the largest earth-Most of the worms and were of analogous length vessels came from the omentum, which had disap-This was moved by absorption, leaving the blood-vessels bare These vessels were either single or else grouped in By them It was lost in such a mass of livid veins that Dr The woman did well for There sputa became streaked with blood, and she died on So far as he can learn from the literwhich a leukæmic spleen had been extirpated, and

DR HARRIS said that the case of recovery after

The proporlini, of Medina, in Northeastern Italy tion of leucocytes was small and probably accounted for the recovery of the patient been made before the operation

DR Parrish had a few years ago seen a case of the late Dr Wallace's, in which a diagnosis of fibroid of the uterus had been made A tumor the size of the two fists was found near the side of the uterus The patient developed peritonitis and was tapped by the assistant physician, some dark fluid was with-Death took place a few months after, the peritonitis having been cured At the autopsy the spleen was found adherent to the uterus and to the pelvic brim

DR GOODELL called attention to the hæmoptysis and hæmatemesis in his case, which were the usual symptoms of a leukæmic spleen, but he had not been informed of them until after the operation had been performed, and therefore he did not have that clue towards forming a diagnosis

(To be concluded)

CHICAGO MEDICAL SOCIETY

Stated Meeting, January 16, 1888 THE PRESIDENT, W T BELFIELD, M D, IN THE CHAIR

(Concluded from page 210)

CASTS OF THE TRACHEA AND BRONCHIAL TUBES were exhibited by Dr F E Waxham, who said The specimen I have to present is a membranous cast of the trachea and of a number of the bronchial tubes I take the liberty of presenting this specimen because it is very rare, indeed, that we succeed in securing a specimen of such extent as this

The history of the case is this The child, a little girl of 4 years, had a very mild attack of laryngeal diphtheria She was convalescing nicely when the occurrence of a croupy cough and sawing respiration indicated very plainly that the larynx was becoming invaded, and within thirty six hours it became necessary to perform intubation in order to prevent impending suffocation For the first twelve hours after the operation the child did very nicely indeed, when a portion of the membrane became detached and the tube was expelled It was necessary to at once reintroduce the tube, and the membrane was pushed down ahead of it, the child was removed and this small cast was expelled the course of an hour it was necessary to reintroduce the tube on account of increasing dyspnæa The child apparently did well for twenty-four hours, after which time there was a peculiar hoarse, freof position the tube, the membrane was not entirely detached, diphtheritic casts

strangling, and coughing violently for a few moments, this large cast was expelled, which is a perfect mem-The diagnosis had branous cast of the trachea and the large bronchial tubes After the expulsion of this cast, it soon became necessary to reintioduce the tube, and the child did well for another twelve hours, when there was detachment of still more membrane, and it became necessary to at once remove the tube tube was removed and still the child was unable to There was simply partial deexpel the membrane tachment of the membrane, it had curled up in the trachea and the child was unable to expel it The child became blue and apparently on the point of suffocation, the tracheal forceps were introduced by the mouth, and a strip of membrane one and onehalf inches in length was removed with the forceps, with immediate relief In the course of an hour or so it was necessary to reintroduce the tube child died about twenty-four hours later from extension into the smaller bronchial tubes

This is another cast of the trachea, not as exten sive as the other, and yet a perfect cast of the When we have this tendency to extensive and deep exudation of false membrane, I believe the case almost invariably terminates fatally, there may be exceptions, occasionally a child after the expulsion of such a large cast may recover, there may be no reformation of the mass, and it is possible that the child may recover, yet these exceptions are few and far between, the termination is almost invariably fatal

In considering these specimens an important question arises Is it possible by any known method of treatment to limit or prevent the tendency through this extensive exudation after tracheotomy or intubation? We are all well aware of the fact, that the greatest danger after tracheotomy and after intubation is the extension of false membrane below the tube into the bronch. I believe that by the use of the rubber coil, by the use of aconite, or veratrum viride or digitalis, it is possible to limit or control this tendency to extensive exudation this case no preventive treatment was instituted, but I shall no longer fold my hands after performing an operation and state that if the membrane extends below the tube the child will die, if it does not the child will get well But I believe it is our duty to use every method possible to prevent or control this tendency to exudation I believe that veratrum or became blue, was unable to breath, and the tube aconite is indicated to keep the pulse below normal In It is particularly indicated in those cases where the system is not exhausted by the diphtheritic disease

DR J A ROBISON As this was pharyngeal diphtheria, I can see very readily how the extension of the membrane down into the trachea occurred quent cough, which was induced with every change is, I believe, a fact that fibrinous casts occur in the This indicated loose membrane below trachea and bronchial tubes more frequently than This fact, however, does not inbut simply loosened, did not occlude the tube en- fluence the treatment which should be adopted, but tirely, but sufficiently to give rise to this peculiar it does influence the method of operating somewhat, cough It was deemed unsafe to leave the child in as, for instance, if we are satisfied that it is a case of this condition, fearing the sudden detachment of the diphtheritic exudation, we should favor the intubamembrane and immediate suffocation, consequently tion operation rather than tracheotomy, because one the tube was removed, and after struggling and of the great troubles in tracheotomy is the extension

of the diphtheritic membrane from the tracheal the membrane will be expelled by the efforts of the wound, whereas, in intubation we would not have child in struggling and coughing, but where it is not this difficulty bation we would be as apt to have the extension of the tracheal forceps and remove it the membrane downwards, as in tracheotomy great danger in intubation is the fact that the membrane is already there, while in tracheotomy there is a wound which is the starting point for infection In this case I think the doctor has suggested a good method of procedure Where intubation has been performed and it is discovered that there is an extension of the membrane into the trachea the proper thing is, on the appearance of dyspnæa or cyanosis, to remove the tube and in case the membrane is not expelled to use the tracheal forceps

It has occurred to me that in addition to the remedies which Dr Waxham has suggested, it might be well to try the effect of mercury It is stated as a therapeutic fact by most authorities on the subject, that mercury has an effect in lessening fibrinous exudation, and it seems to me that it facilitates the elimination of these diphtheritic or fibrinous exudations by giving mercury to the point of salivation remedy which might be used for lessening the heartaction and engorgement of the blood-pressure in the lungs, is calibar bean This is a remedy which the profession uses very little except in tetanus, and yet I have noticed in several cases, especially of ædema due to catarrhal difficulties, that calibar bean given until it lowers the pulse from ten to fifteen beats per minute lessens engorgement of the lungs, and in cases of bronchitis where there is a good deal of swelling of the bronchial tubes, where there are sibilant and mucous râles, I have noticed these disappear very promptly on the administration of calibar bean, and it seems to me that it would be a valuable drug The question arises in my to try in these cases mind, whether, when there is exudation or casts in the trachea or bronchial tubes, the administration of makers emetics is advisable in those cases where there is quite a degree of exhaustion, yet we can facilitate the expulsion of the casts by emetics if the patient is not too much exhausted

I wish to ask if there is not a way Dr Holmes of introducing into the trachea tube, connected with a vacuum and by suction, engaging the membrane so that when the tube is withdrawn the membrane is withdrawn with it

There are several methods of re-DR WAXHAM moving false membrane from the trachea I do not know that there is an instrument corresponding to One is fitted with a rubber the one referred to bulb at one end of a staff which is introduced into the trachea and then expanded, and by withdrawing the staff you remove the false membrane instrument corresponds with the one that is usually employed in removing foreign bodies from the œsophagus In all these instruments it becomes necessary to pass below the obstruction before it can be removed, and there is always the danger of crowding the membrane down ahead of the instrument instead of passing by it I cannot see that these instruments are superior to the tracheal forceps In the majority of cases when the tube is removed,

And it does not seem to me in intu- I find that I can usually grasp the membrane with

NEW INSTRUMENTS.

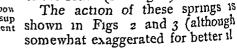
A NEW BRACE FOR BOW-LEGS BY CHARLES F STILLMAN, M D

CLINICAL PROFESSOR OF ORTHOPŒDIC SURCERY IN THE WOMAN'S MEDICAL COLLEGE OF THE N Y INFIRMARY ORTHOPEDIC SURGEON TO THE N Y INFANT ASSLUM

Bow-legs is a deformity so frequently met with in practice, that an extended description of the condition is not necessary to enable the practitioner to understand the action of the brace here introduced, and which has been devised by the writer

> This brace differs very materially from the heavy double frame usually supplied by the instrument-makers (see Fig A), which supports the limb without exercising much curative force upon the deformity itself

As will be seen by reference to Fig 1, it is constructed upon a new principle, viz, that of combining constant spring-pressure with the support, so that a constant force will be brought to bear upon the bowed limbs at their greatest con vexities, this force being regulated by ratchets placed at the junction of the springs and the main frame of the brace (see Fig 1)



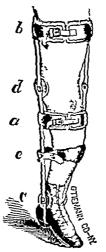
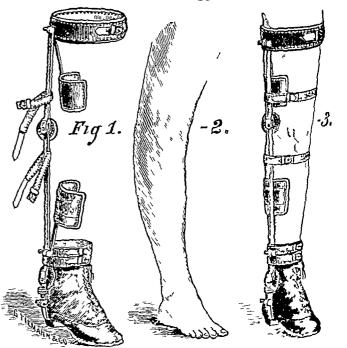


Fig A —I he bow leg brace usually sup plied by instrument



Stillman's Bow leg Brace

foot may be regulated in its relation to the leg, since inversion or eversion of the foot very often accompanies the condition of bow-legs

"The Florence," 109 E. 18th Street, New York

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FROM OUR OWN CORRESPONDENT)

Cerebral Paralysis in Infancy—General Muscular Contracture in an Infant-Infantile Paralysis from Polio-encephalitis-Moral Obliquity in Childhood-A Book Agent with Small pox

There has recently been organized in the Academy of Medicine a Section on Pædiatrics, and its first scientific meeting was held January 25, with Dr J Lewis Smith, the Chairman, presiding On this occasion the session was devoted to the subject of Cerebral Paralysis in Infancy, and an able paper, that he called a contribution to its study, was read In it he referred to three classes by Dr H Seibert of cases in which the clinical manifestations were all due to atrophy of the brain, although in the first the trouble had its origin in an insufficient blood-supply, in the second in acute meningitis, and in the third in chronic meningitis

In treating of the first variety he gave a detailed description of a case in which there was almost complete absence of muscular power existing from birth Although born at full term, and without syphilitic or other taint, the infant was always puny and poorly nourished When born the cord was found to be wound around the neck twice, and it was to the constriction thus made in utero that the cerebral atrophy At 14 months of age the child died was attributed from capillary bronchitis, and when the brain was examined after death it was found that the layer of white matter was very thin, and the diagnosis of cerebral atrophy was abundantly confirmed by the mi-In the course of his experience Dr Seibert said he had met with four cases altogether in which there was congenital atrophy of the brain, but this was the only one in which he had been able to secure a full clinical history and verify the diagnosis by autopsy

The second variety, he stated, was more common than the first, and of this he related two cases, in one of which a post-mortem examination was made this second class of cases the symptoms were similar in character to those met with in the first, but here the atrophy was due to meningitis resulting in exudation, arachnoid thickening, and sometimes moderate hydrocephalus

The third class of cases, he said, was characterized by increased crying and moaning, with muscular contractions, and sometimes permanent episthotonos, though there were no general convulsions

lustration), and the brace is also provided with ratch- ily increasing, and causing abundant exudation on ets below the ankle joint, so that the position of the the cortex, but running its course without febrile movement He narrated two cases of this kind, occurring in a brother and sister, and in one of them the diagnosis was confirmed by autopsy After lasting for several months the affection terminated in heart-failure, the temperature in one case falling to 96° F, and in the other to 94° In the case in which the post-mortem was made there were no tubercles or tubercle bacıllı found

At the meeting two cases of great interest were presented by members of the Section The first one, by Dr A Caille, was one of General Muscular Contracture in an Infant of Six Weeks The parents were both healthy, and this was the third child of the The other two children were strong and mother well-developed in every way This infant was born at full term, and the head was comparatively large, with a decided flattening on one side of the cranium, but the rest of the body was small and shrunken in The jaw, which was turned slightly to appearance one side, could be opened to only a very limited extent (so that the child was unable to suckle), and there was general contracture of the muscles of both the upper and lower extremities

Dr A Jacobi, after an examination of the child, which was exhibited to the Section, said that the condition present appeared to him to be the result of a meningo-encephalitis which had occurred during The contracture of the jaw somewhat refœtal life sembled that seen in incipient trismus, although the spasm was not so marked as in that affection appearance of the cranium was very much like that met with in cranio-tabes in children a year or more He thought it was doubtful whether galvanoelectric treatment would be of much service in such a case, and that an unfavorable prognosis must be pronounced, although a certain proportion of children presenting the condition vested in this infant (which was undoubtedly very rare), recovered

The Chairman exhibited a case of Infantile Paralysis which he believed to be due to polio-encepha-The child was two years old, and had always been perfectly healthy, with the exception of an attack of diarrhœa, up to May last, when, at the age of sixteen months, while apparently quite well, it was seized with violent convulsions, which lasted from 6 PM to 3 AM, and were accompanied with considerable febrile movement After the stupor commonly following severe eclampsia had passed off it was found that the child had complete paralysis of the muscles on the left side of the body, including the facial muscles on that side The recovery from the facial paralysis was complete, and took place rapidly, while there had been a gradual improvement as regards the muscles of the upper and lower ex-At the present time the child was able to walk, though partly dragging the left leg, and there was still a spastic condition of the toes on the affected side

Dr Smith said that it was his opinion that some of the cases resembling this which had been reported as due to cerebral inflammation, were in reality in-The condition was due to chronic meningitis, stead- stances of cerebro-spinal meningitis Ever since

prepare an address on the recent advancements in the branches belonging to his Section, including such suggestions in regard to improvements in methods of work, and present, on the first day of its annual meeting, the same to the Section over which he pre-The reading of such address not to occupy "-By-Laws more than forty minutes

Practice of Medicine, Materia Medica and Physiology Dr 1—, Chairman, Dr N S Davis, Jr, 65 Randolph St, Chicago, Ill, Secretary

Obstetrics and Diseases of Women and Children Dr Eli Van De Warker, 45 Montgomery St, Syracuse, N Y, Chairman, Dr E W Cushing, 1 Hotel Pelham, Boston, Mass, Secretary

Surgery and Anatomy Dr Donald McLean, 72 Lafayette Avenue, Detroit, Mich, Chairman, Dr B A Watson, 124 York St, Jersey City, N J,

Secretary

Dr H B Baker, Lansing, State Medicine Mich, Chairman, Dr S T Armstrong, U S M

Hosp Service, Secretary

Ophthalmology, Otology and Laryngology Dr F C Hotz, 181 Clark St, Chicago, Ill, Chairman, Dr Edw Jackson, 215 S 17th St, Philadelphia, Pa, Secretary

Diseases of Children Dr F E Waxham, 3449 Indiana Ave, Chicago, Ill, Chairman, Dr W B

Lawrence, Batesville, Ark, Secretary

Oral and Dental Surgery Dr J Taft, Cincinnati, Ohio, Chairman, Dr E S Talbot, 125 State St, Chicago, Ill, Secretary

Medical Jurisprudence Dr E M Reid, 243 N Fremont St, Baltimore, Md, Chairman, Dr C B

Bell, Suffolk, Mass, Secretary

Dermatology and Syphilography Dr L D Bulkley, 4 E 37th St, New York, Chairman Dr

S F Dunlap, Danville, Ky, Secretary

A member desiring to read a paper before a Section should forward the paper, or its title and length (not to exceed twenty minutes in reading), to the Chairman of the Committee of Arrangements at least one month before the meeting —By-Laws

Committee of Arrangements -W W Dawson,

Cincinnati, Ohio, Chairman

WM B ATKINSON, MD, Permanent Secretary

Philadelphia, 1400 Pine St, S W cor Broad

SPECIAL COMMITTEES TO REPORT AT THE CINCIN-NATI MEETING OF THE AMERICAN MEDICAL ASSOCIA-TION —As appears from the programme of the general sessions, published last week, there are three special committees, in addition to the standing committees, to report at the next meeting of the American Med-The membership of these special ical Association committees is as follows Committee on Fœticide, and Measures for its Prevention, I N Quimby, of New Jersey, W B Atkinson, of Pennsylvania, W Committee on Duties Com-H Byford, of Illinois

mually, a corrected list of the membership of their respective Societies

Sections—"The Chairman of each Section shall

W Dawson, of Ohio Committee on Dietetics, E A Wood, of Pittsburg, J T Whittaker, of Cincinnati and F Woodbury, of Philadelphia

MISCELLANEOUS.

THE MISSISSIPPI VALLEY MEDICAL MONTHLY, published at Memphis, Tenn , has changed its name to the Memphis Medi cal Monthly, but continues, as heretofore, under the able edito rial management of Drs Sim and Neely The change of name is a decided improvement

THE GERMAN CONGRESS AT WIESBADEN -The seventh an nual German Medical Congress will meet on April 9 to 12 at Wiesbaden, under the Presidency of Professor Leube, of Wurzburg The following subjects for discussion are an nounced "Chronic Diseases of the Heart Muscle, and their Treatment," by Oertel, of Munich, and Lichtheim, of Berne, "Alcohol as a Remedy," by Binz, of Bonn, and von Jaksch, of Gratz, "Prevention and Treatment of Asiatic Cholera," by of Gratz, "Prevention and Treatment of Asiatic Cholera," by Cantani, of Naples, and A Pfeisser, of Wiesbaden Papers are promised on "Floating Heart" (Wanderherz) by Rumps, of Bonn, "Experimental Researches on the Mechanism of Respiration," by Universicht, of Jena, "Combined Degeneration of the Spinal Cord," by Adamkiewicz, of Cracow, "Experimental Contributions to the Dietetics of Digestive Disorders," by Jaworski, of Cracow, "Treatment of Basedow's Disease, and on the Diagnosis of Renal Tumors," by Stiller, of Buda Pesth, "The Excretion and Solution of Uric Acid," by E Pseisser, of Wiesbaden, "The Pathogenesis of the Epileptic Fit," by Binswanger, of Jena, and "On Cryptogenetic Septico Pyremia," by Jurgensen, of Tübingen

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM FEBRUARY 11, 1888, TO FEBRUARY 17, 1888

Capt Wm H Arthur, Asst Surgeon, leave of absence extended two months SO 35, AGO, February 13, 1888 First Lieut Nathan S Jarvis, Asst Surgeon, ordered from Ft Lewis, Col, to Ft Leavenworth, Kan SO 30, AGO, February 7, 1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U S NAVY, DURING THE WEEK ENDING FEBRUARY 18, 1888

Asst Surgeon F W Olcott, detached from the "Minnesota," and to the "Atlanta"

Surgeon T C Heyl, ordered to the receiving ship "St Louis"

Surgeon H M Martin, detached from the "St Louis" and to the "Swatara"

Asst Surgeon Chus. F Webster, ordered to the receiving ship "Vermont"

Asst Surgeon James G Field, detached from the "Vermont" and to the "Swatara"

A Surgeon Robert Whiting, detached from the "Iroquois"

and to the Coast Survey
Asst Surgeon Elmer C Tracy, resigned, to take effect imme diately

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U S MARINE HOS PITAL SERVICE FOR THE TWO WEEKS ENDING FEB RUARY 18, 1888

A Surgeon Eugene Wasdin, relieved from duty at Marine Hospital, Chicago, ordered to Marine Hospital, Mobile, Ala February 16, 1888
sst Surgeon Seaton Norman, relieved from duty at Marine

Hospital, New York, to assume charge of the Service at Evansville, Ind February 6, 1888

ournal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

PUBLISHED WEEKLY

Vol X

CHICAGO, MARCH 3, 1888.

No o

ADDRESS

THE PROGRESSIVE AND CONSERVATIVE SPIRIT IN MEDICAL SCIENCE

The Annual Address Delivered before the Boston Gynacologi cal Society, December, 1887,

> BY HORACE C WHITE, M D, OF SOMERVILLE, MASS

In the broad domain of medical science there is room for many laborers, each may cultivate his chosen field for his own profit and for the general The historian records the discoveries and inventions of the past, relates the rise and overthrow of theories, and teaches us of the errors, as well as the truths, which have been promulgated collates from reports and statistics furnishes some imes important, and sometimes unreliable, data upon which to form opinions and theories

The investigator, whether his researches are in 'he laboratory or by the sick bed, is often discoverng new facts and frequently advancing new theories These theories are put to the test and approved or ondemned, by him who stands in the presence of build anew lisease and death, and who, furnished and equipped y the results of the labor of his predecessors, and is own experience, takes the responsibility to act Inowledge is vast and life is short Each in his wn sphere may act his part

/ The advanced thought of to day is the conservasm of to-morrow The winnowing sieve of expeence separates the grains of truth from the chaff of rror, the former is eternal, the latter is the rubbish f the past The world is full of books, but a not The late Prof Cleaveland, of Bowdoin Colge, gave as the best definition of science, "Classifi ation and induction" One of his successors denes Natural Science as "that theory which will cplain most of the phenomena,

.The first definition is correct for exact science ily, otherwise we may classify well proven facts, id those, often warped and twisted to prove theo s which we have been taught, with what time gressive and conservative oves to be but error We must take the second finition to apply to Medical Science, if indeed it t can be called a science

Theories must frequently be changed with increas-3 knowledge New facts, both physiological and ent, and often a radical change in theory

The microscope is revealing hitherto hidden mys-Collateral sciences are developing unknown forces, and opening up new fields of investigation, while more scientific observation and careful recording of cases gives us much data upon which to revise long unchallenged opinions But not until we can comprehend that seeming impassable barrier, a want of knowledge of the vital force, or can get some conception of the origin and nature of force as applied in the natural sciences, can we expect to attain anything like permanence in our theories Carlisle says "Science has done much for us, but it is a poor science that would hide from us the great, deep, sacred infinitude of Nescience, whither we can never penetrate, on which all science swims as a mere superficial film " "The world," he says, and he might with equal truth have said the human body, "after all our science and sciences, is still a miracle, wonderful, inscrutable, magical and more, to whosoever will think of it " And yet each generation goes building up new theories and fortifying them with facts, both seeming and real, until its successors, or the advanced thinkers of the day, tear them down to

Against all these innovations stands conservatism, defending the theories of the past as a patriot defends home and country, and not only standing on the defensive, he sometimes attacks what he believes to be his enemy, with all the power at his command, using even sometimes the sharp sword of ridicule and sarcasm

Have not these theories stood the crucial test of experience? True, they sometimes failed, but was not the failure merely an exception so conveniently ery large volume would contain all well proven believed necessary to prove the rule, or explained as an accident, which might have been avoided?

These well-tried theories he is loath to give up even when, in the light of new truths, another will explain more of the phenomena

> "My very chains and I grew friends, So much a long communion tends To make us what we are "

The earnest seeker after truth should be both pro-

This is an age of brilliant scientific investigation and dazzling theories, and while we should not be captivated by their mere brilliancy, we should give them an unprejudiced examination and an impartial judgment Koch, Pasteur, and others, by their in-, thological, require an almost continual readjust- vestigations and speculations in biological germs, have given a new impetus to scientific thought in its relation to pathological processes New theories have been founded and old theories threatened New theories Honest conservatism will not be hasty to accept the mable value to surgical science which the discovery new, but it will be ready to listen, to examine, and of the anæsthetic virtues of sulphuric ether has been to acknowledge that which time and experience | Shall we not, then, take warning by the past, and,

grown out of the germ theory so ably taught by Lister and his zealous disciples, has proved that scrupulous cleanliness is an essential factor to success in all surgical operations, and that when experience has eliminated some of the hasty conclusions, much of value will be left, and that many of the phenomena of pathological processes are best explained on these theories Scientific thought is ever pro-New theories are evolved from the old The originals," says Emerson, "are not original"

There should be nothing but generous contention between the progressive and conservative scientist All new discoveries or innovations upon the customs or thought of the times are liable to encounter an ungrateful and often persecuting spirit The torture of Galileo, the imprisonment of Columbus, the ridicule and misrepresentation with which the new discoveries of Harvey and Jenner were received by even the scientific men of their day, are only illustrations of the fact, nor can these examples be credited wholly to the ignorance or bigotry of the past, the same spirit often shows itself in some form at free discussions cannot but be of great value to the present day

Some of you gentlemen can remember the abuse heaped upon some of the most eminent surgeons of Boston when they first tested the anæsthetic virtue of sulphuric ether, and this severe criticism, too, by influence upon society work, and in the impulse some of the leading medical journals of this country For the benefit of younger members, I quote one of scine in this country

the many criticisms of that day

The Philadelphia Medical Examiner, after detailing the reports of its trial by Drs Warren Haywood and "We are persuaded that the surgeons Bigelow, says of Philadelphia will not be seduced from the high professional path of duty into the quagmire of quackery by this will-o'-the-wisp, and, if any of our respectable dentists should be tempted to try this new patent medicine, we advise them to consider how great must be the influence of an agent over the nervous system, to render a person unconscious of pain—the danger there must necessarily be from such overpowering medication, and that if a fatal result should happen to one of their patients, what would be the effect upon their conscience, their repu- study which will be felt, may we not hope, for many tation, and business, and how the practice would be likely to be viewed by a Philadelphia court and ably sustained, and the enthusiastic attendance upon jury? We cannot close these remarks without again its meetings proved the interest which was felt in expressing our deep mortification and regret that the this department of medical science eminent men who have so long adorned the profession in Boston, should have consented for a moment to set so bad an example to their younger brothers as we conceive them to have done in this instance If such things are to be sanctioned by the profession, ling, did so much to deserve success He was ably there is little need of reform conventions, or any assisted by several other member our Society, other efforts to elevate the professional character, by many physicians and quacks will soon constitute one fra- from ab ternity "

How oddly this sounds when we remember the priceless boon to suffering humanity and the inestiwhile we may be conservatively slow in accepting All must acknowledge that the practice which has new theories or in attempting dangerous experiments, we should be equally careful not to hastily condemn every innovation upon the accepted theories and practices of the past, honestly seeking after truth and fearlessly defending it The rapid growth of medical societies and their divisions into the various specialties, during the past few years, gives opportunity for full and frequent discussion on topics of interest to the profession New and old theories must stand on their merits Their disciples and defenders must at all times be ready to give a reason for their faith and defend it from assault, here each has a chance to question and demand proof, and each has an opportunity to prove, illustrate, and relate his experience If it possess merit it will with stand all the arguments which can be brought against it, or all the ridicule which may be heaped upon it, and come out like wheat from the winnowing mill or new coins from the mint, but if it is wanting in merit it will soon take its own place among the heaps of useless rubbish with its kindred companions of exploded dogmas and worthless inventions Such true scientific knowledge if carried on with no feeling but that of generous contention and for disinterested purposes

The past year has been a memorable one in its which has been given to the scientific study of med-

The meeting of the Ninth International Congress, at Washington, bringing together as it did eminent scientific men from different parts of the civilized world, each contributing by his presence, and many by their labors, to enrich the feast of medical scientific thought and fraternal relations The amount of valuable original work was not small, and if, as Lowell says, "Originality consists quite as much in the power of using to purpose what it finds ready at hand, as in that of producing what is absolutely new," then the amount of original work was indeed Not alone in the work vast as well as valuable there produced will the influence of the Congress be felt, but by the stimulation to investigation and The Section of Gynecology was years to come Much credit was due, and cordially awarded to, the President, Dr Marcy, an honored member of our Society, whose indefatigable labor and eminent ability in organizing the Section, and whose courteous manner in presidountry and ent ge ota terested

rank in the profession in the countries which they represented gave great interest to their papers and discussions, were Drs Martin, of Berlin, Grailly Hewitt, of London, Reed, of Glasgow, Apostoli, of Paris, and Cordes, of Geneva, with many others of first rank in this and other countries With this array of talent so well organized, the meetings were interesting and profitable Among the subjects discussed which have been considered by our Society with interest during the past year, was that of uterine myoma. Its treatment, in suitable cases, by ergot, was ably presented, as also by electricity, which called forth much discussion of using electricity in gynecology was fully explained Dr Martin's operation for vaginal and discussed several of you gentlemen had the pleasure of witnessing while he was in Boston, was elaborately exme to give even a synopsis of what was presented of reproduction interest to our Society

ought to do efficient service in its important and honspirit both progressive and conservative its membership ardent and enthusiastic investiga- functions tors, men who do not feel obliged to stop where their nancy, so familiar to you all predecessors did, or to take as proved all they have been taught, but who, with clear heads and steady by the light of advanced scientific thought and with all the appliances of modern art It has also men with the experience of years upon them, men who have had grand success with old theories, and who have a right, by reason of their past success, to be conservative and hold fixed opinions Some who have spent much time in the hospitals and laboratotories studying their specialties with the best advantages and under the great masters of our art, and respects, have been taught independence and selfwere obliged to act with the best light they had and watch the results with no one to counsel them or share the great responsibilities, and some who have just entered upon the responsible duties for which they have been for years preparing themselves, full of enthusiasm and hope Our Society is also honored by having in its membership, ladies, possessing not only the education and experience of the sterner sex, but also a keener sense of the wants and of the peculiar nature of the disease of which our specialty calls upon us to treat

In our list of corresponding members may be found the names of gentlemen who are known the world over, and who are acknowledged as leaders in gynecological studies and practice. With this array of talent working harmoniously together, the possibilities of our Society for good to each member and the communities in which we live, are very great.

ORIGINAL ARTICLES

UTERINE MOLES

Read before the German Medical Society of Philadelphia, Feb ruary 13, 1888

BY EDWIN ROSENTHAL, MD,

ASSISTANT DEMONSTRATOR OF CHEMISTRY JEFFERSON MEDICAL COL LEGE FORMERLY PHYSICIAN ACCOUCHEUR TO THE WOMAN'S LYING IN HOSPITAL OF PHILADELPHIA, ETC

The most important of the internal organs of generation is the uterus Its structure, anatomical Dr Apostoli's method | character, physiological attributes and pathological changes have received the most attention from the zealous investigation not only of the obstetrician total extirpation of the uterus for carcinoma, which and gynecologist, but of the physiologist, and last, but not least, the pathologist The peculiar and especial office that places it in the foremost rank of plained and illustrated, but space will not permit the anatomical structures in the woman is that of After copulation, should fecundation take place, it then becomes the nest upon which the The Gynæcological Society of Boston can and fecundated ovum rests, grows, matures, during that period which we term gestation, and at the expiration orable field of labor Its talents are versatile, its of this nearly uniform period it expels its contents It has in labor, and then resumes again its normal size and These changes comprise a normal preg-

But this evening I will speak of the pathology of pregnancy, that is, of one of the functional derangenerves, are carefully exploring in untrodden paths ments that occur in the pregnant woman, in which there may be an accidental lesson of the ovum, spontaneous to the ovum, which always ends in death, and which we will designate as Molar Pregnancies

I must, however, preface my remarks with this observation that whilst there are certain forms of moles termed the false or spurious moles, which have nothing at all to do with conception and which, for the proper understanding of our subject, must be spoken of and described, I may be open to your criticism some who, although less favored, perhaps, in these by speaking of these affections under the term pregnancy, but as I before observed that the uterus exreliance from necessity while treating all "the ills pels its contents by what we term labor, and as labor which flesh is heir to" in country practice where they is the ultimate result of pregnancy, the expulsion of a spurious mole has the same physiological action as that of the true mole, probably and properly termed a spurious pregnancy, at any rate, the women suffer pain quite equal, and a virgin will remain a virgin, a mole notwithstanding

Historical Sketch - Moles were known to the ear-This can be attested by the fact that liest writers Hippocrates, Aristoteles and Galenus had been acquainted with them, speaking of them and understanding them to be degenerated ova, which we to-day know as vesicular or fleshy moles The Arabians gave a greater field to their designation of They understood a mole to be not only the uterine contents, but also any tumor which might lay in the cavity or in its walls. Then again, at a later period, a difference was shown in moles, and then was spoken of true and false moles, the product of conception and not of conception

Schenk v Grafenberg, in 1565, was the first to describe the vesicular or hydatidiform mole (Blasenmole) The nature of this product was for the great-

est period obscure From the end of the last century exercised in differentiating these false moles from even until a recent period this was looked upon as true ones. Difficulty may arise when the discharged true vesicular worms Whilst already Ruysch (who tissue is the membranes of membranous dysmenorwas still uncertain whether they were a pathological rhoa, where this tissue may be mistaken for true deproduct of pregnancy), looked upon these cysts as cidual membranes The circumstances attending an alteration of the villi Velpeau and Johan Muller each case should receive the earnest scrutiny of the disputed that the vesicles were true cysts problem from whence originated this growth? was evidence should be gathered were there any previunsatisfactorily answered by different theories Gierse ous attacks? note the absence of the signs or sympand Meckel seek the origin of the product to be a toms of pregnancy, and so on hypertrophy of the villi (zotten), whilst H Muller charged mass, should this happen to be complete, the exochorion, and Mettenheimer the cellular tissue Virchow finally cleared away the obscurity and that of the cervis, which is never observed in true brought light on this subject He proved that vesicular or hydatidiform moles (described also by Hil-the presence or absence of the fecundated ovum debrandt as "fibrous my vomata" of the placenta) were | Blood clots, polypi, and small fibroids or portions of a hyperplasia of the mucous membrane—the elementary bases of the finer tufts of the chorion (Cho- naked eye or microscopic examination Schroeder quotes cases of "diffuse rionzotten) my oma" of the placenta, by Breslau and Eberth, of impregnation and Spaeth and Wedl

moles into two great classes a, the false, b, the true moles

True moles are subdivided, as regards their physical character, into fleshy and vesicular or hydatidi-The fleshy are again divided into fatty, carneous (steinmole), etc Moles have been designated by different names moon calf (Mondkalb), devil's brood (Teufelsbrut), wind-egg (Windei), sun child (Sonnenkind), Neirenkind, Kielpopf, Missge-By the professional they are designated by their contents blood mole (Blutmolen), water mole (Wassermolen), air moles (Lustmolen), hair mole (Haarmolen), cartilaginous mole (Flechsenmolen), bone mole (Knochenmolen), and calcareous mole (Kalkmolen)

A Spur sous Moles —I shall speak rather briefly of this portion of my paper As an independent affection, existing uncomplicated, I believe it to be impossible Its mention here is to open the way for the discussion of the more important variety

Mauriceau believes that moles could not exist without impregnation, that it was always the offspring of intercourse In his 105th aphorism (Traité regular medical attendant She was suffering from des Maladies des Femmes Grosses) he says femmes n'engendrent jamais des moles, si elles n'ont uterine contractions. The flooding was very prousé du coit " This Alexander Milne, of Edinburgh, suse cannot subscribe to, believing that cases occur, nay, more, having met with them, where fleshy masses have been expelled from the uters of women who If virgins expel certainly never had connection such things, then, they are not to be impeached, to do so would be unjust

Various substances, organized or unorganized, may be discharged from the uterus of the virgin, such substances as clots of blood, membranous shreds, or even whole membranes, as well as fibrinous materials These may even have the shape of the uterine cav- History of general good health, no syphilitic or ity, and may come away naturally or must be removed, and which have nothing whatever to do with Dr Julius Kaemmerer, who treated her for several fecundation, and are termed spurious moles

medico-legal view, and the utmost care should be the same case with precisely the same symptoms

The attending physician All circumstantial and direct Examine the dis we may find the opening of the Fallopian tubes and The microscope, however, will determine decidua large ones should not be difficult of recognition by

B True Moles — True moles are always the result The villi of the chorion may become distended with fluid collecting within them, Moles and their Synonyms - Obstetricians divide | causing them to swell and assume the form of rounded vesicles comparable to gooseberries or grapes, resembling hydatid vesicles, and on account of this analogy they were for a long time supposed to be true hydat-Or an extravasation of blood may take place between the maternal and fœtal structure of the fecundated ovum or into the tissue of the latter, producing a fleshy mole The embryo may become mummified, or may speedily disappear in the early stages, and then we meet only with the membranes or appendages

Two chief varieties of true moles are at present recognized, namely 1, the fleshy, and 2, the vesic-

ular or hydatidiform mole

I Fleshy Moles — These I believe to be the most frequent My colleagues who are acquainted with this formation and myself have met with these cases more frequently than the hydatidiform I shall present the histories of a number of cases which I have met in practice and in that of my colleague, Dr L Wolff, which may describe the conditions met with

Case 1 —Dr Wolff's case History incomplete The doctor was called to a woman in absence of her "Les uterine hæmorrhage Besides this, she had painful On examination a roundish mass was discov-Tamponnage and ered engaged in the os tensi internal administration of ergot failed to remove this, although it gave rise to violent contractions Expulsive efforts were much marked, but with no Dr A, for whom Dr Wolff was attending, result returned in a few days, and afterwards informed him that the case was one of a fleshy mole, firmly adherent to the uterine fundus, which he had to detach with a blunt hook and curette

A German woman Case 2 — Dr Wolff's case Previously treated by my preceptor, other taint They were spontaneously deof the kind before Their significance is of some importance from a tached after much hæmorrhage. Dr Wolff treated

previous suppression of the menstruation of two or three months, beginning hemorrhage and pain, becoming worse as the case continued, the mass com-

ing away naturally

Case 3 - Dr Wolff's case A German woman, strong and healthy appearance, et 30 years been complaining of uterine pains, bearing-down pains, for some time, with slight hemorrhage which became very profuse, for which Dr Wolff was sent The uterine contractions were much greater than he had previously met with Digital examination revealed a round, soft body engaged in the os tensi, it was firmly adherent and could not be re-Tampon and ergot had moved between the fingers no effect, though frequently repeated As the hæm orrhage continued so profusely as to endanger life, removal was proposed and consented to This was accomplished by means of the Beecher placenta forceps after considerable difficulty, the adhesions being so firm, and effected only after twisting or ro-The adherent or pedicular portions tating the mass were found quite distinct, and had undergone partially but distinct fatty degeneration

Case 4 -Dr Wolff's case Mrs C, an Italian woman with a history of a number of miscarriages Was attended by Dr H, who called Dr Wolff in consultation The doctor found the patient almost pulseless Dr H was not there when the doctor He had, however, succeeded in controlling arrived the hæmorrhage by means of the tampon and ergot Stimulants were administered and twenty-four hours subsequently the tampon was removed by Dr H, who insisted that the case was one of miscarriage only, and predicted that the placental residue would be found in the vagina after removal As no fœtus had been expelled, and no history of fecundation, Dr Wolff claimed the probability of its being a mole Tampons failed to dislodge it, both in the first attempt or any repetition, therefore removal was con sented to, and with the Beecher forceps a fleshy mole was removed, part of which had been previously broken up and removed by Dr H After removing all particles with the blunt hook and curette and irrigation with hot water, the hæmorrhage ceased, the uterus contracted, and a slow convalescence ensued from the extreme an emic condition

Case 5 -Mrs N, æt 35, had never borne children Was called to see her for intense uterine pains with slight hæmorrhage She had suppression of the menses of ten weeks' duration Morphia was administered hypodermatically On the third day hæmorrhage became more profuse, tamponnage and ergot were resorted to, which caused the expulsion of a flesh mole the size of an orange, round and somewhat coagulated blood When incised, the texture was somewhat compact, and in the centre was found a small cavity, fined by a serous membrane and coneither the fœtus or cord remaining rapid recovery

Case 6 — I was called by a midwife to see a Hun

40 years of age, well nourished and fleshy been in labor about twenty-four hours, and the midwife was at a loss what was presenting, which was shared by myself There was a slight hæmorrhage. with uterine contractions. The uterus was open about the size of a dollar, soft and pliable, and a tendency to dilate In several hours a large fleshy mass was discharged, about the size of a foetal head. which presented the same physical characteristics as the previous case, except in the walls of the mole, which were probably 3 inches in thickness, small cavities were found filled with blood In its centre the same cavity as in the previous case was found (which, in regard to proportion to the entire mass, might be placed as 1 to 20), lined with serous membrane and containing some fluid and nothing more

Case 7 -A Polish woman, Mrs H, æt 38, mother of five children, the youngest 3 years Had had three miscarriages, but none since the last birth Had suppression of the menses for over a year and supposed herself to be passing the menopause four months has had constant dribbling of blood from the uterus with intermittent pain I was called to see her, and on examination could easily pass my finger into the uterus Presenting at the os, and movable, I found a mass of tissue This I attempted to remove with curette and blunt hook, but without By means of this placental forceps I was success enabled to remove the mass, previously crushing it so as to remove it It was a mole, probably one of those termed the carneous, of very dense fibrous tissue, with here and there small pellicles of calcareous The woman made an excellent recovery deposits

Case 8—B F, an English woman, æt 33 years, well nourished, family history good Has had four miscarriages, and then one pair twins, one year after gave premature birth to twins, both dead, probably seven month fœtuses A year after this I was in attendance and she was safely delivered of a full term child, and with the afterbirth, seeming to be adherent, was discharged a large fleshy mass, having all the characteristics of a fleshy mole Its size was that of an adult head, it was pliable, easily moulded, and was brought away without any difficulty it at first for a monstrosity, but it had no resemblance in any of its features I incised it and found a small cavity containing a small amount of fluid This case was unique, and I might have doubted that the mass as a fleshy mole could exist with the living fœtus, but since then I have read in an excellent monograph by Alfred Wiltshire, Physician Accoucheur to St Mary's Hospital, London that such a state of things was said to have occurred on the occasion of the birth of the celebrated anatomist Beclard That, in fact, twin firm, presenting an irregular surface covered with pregnancies may occur where degeneration affects the membrane of but one ovum

ETIOLOGY —As before mentioned, extravasation of the blood between the maternal and fœtal structures taining a small quantity of fluid Not a vestige of of the fecundated ovum, or into the tissues of the She made a latter, appears to be the active agent in the production of the fleshy mole, though it is difficult to determine the agencies whereby this condition is brought garian woman who was supposed to be laboring under about Diseased state of the decidua may doubtless a beginning miscarriage She appeared to be about result when pregnancy supervenes upon chronic en-

In a case I treated wherein pregnancy dometritis supervened, a miscarriage resulted. I did not examme then, which probably I would do now, the pro- the same may be said of acute specific diseases where ducts of this miscarriage of blood into the maternal structures may occur from cardiac disease, though my experience teaches me that women suffering from cardiac diseases very rarely become pregnant

Frequency — From the number of cases presented this evening it may appear that moles of the fleshy variety are not infrequent. I am led to think that they are more frequent than one supposes The lack of knowledge, coupled with the ridiculous faith placed in the assertions of the women who have them, leads Again, their appearance, likthe attendant astray ened to that of placental tissue, especially when blood is effused into it, besides where the mummified fœtus | serotina is still in existence, or the remains of the fœtus, of the cord, etc, leads the physician to a diagnosis of a simple miscarriage and not that of a molar pregnancy Fleshy moles are by far more frequent than the ad infinitum, at the point corresponding to the serovesicular or hydatidiform variety, and are not an uncommon concomitant to frequent pregnancies or miscarriages

Symptoms —The immediate symptoms are those of a threatening miscarriage The premonitory symptoms are likened to those of the very earliest months Absence of the placental souffle and of pregnancy the positive signs of pregnancy, with suppression of the menses, are among the signs I and my colleague were only called at the threatening abortion not believe that any positive symptoms exist by his description of a fleshy mole as follows

its expulsion

Course -The course of the molar pregnancy of Generally at three the fleshy variety is variable months nature seeks to throw off the mass . Hæmorrhage comes on about this period, and then it is the little product escape, leaving the membranes simply a question of time when the uterus expels its behind. These envelopes may undergo various modicontents

DIAGNOSIS -The diagnosis of the fleshy mole I Suspicion may arise when should deem impossible the patient has had one before, but as regards posi-It can only be tiveness, I think it out of question made when you have the tumor in your hand

Prognosis -All the cases here quoted ended Prompt treatment should be the rule favorably Should danger arise from the excessive hæmorrhage, the tampon is always a safe and efficient remedy Some cases of extra-uterine moles which authorities quote, that have been met with in the ovary and abdomen, and the cyst given way, causing death, are Sometimes these cysts have of course unfavorable opened into the bladder or bowels, the result being the same Still, the same chances which extra-uterine pregnancies have in antiseptic surgery extra-uterine moles may have, and the prognosis modified ruary, 1840) relates one case Peritonius may result tremely marked, and in rare cases calcareous degenfrom the misuse of instruments, causing death Hæmorrhage might, and pyæmia and septicæmia, ecc , may cause death

PATHOLOGY —The pathology of fleshy moles is still shrouded in obscurity Heart disease, causing an it is looked upon as a true mole

effusion of blood, again, syphilis and other blood dyscrasiæ, appear to exert an influence, and perhaps It is said that an effusion they fail to excite abortion. Whatever may be the exciting cause, when once blood has been effused into or between the fætal and maternal structures, the vitality of the embryo is speedily compromised The common result is abortion, but, should not the whole be thrown off, growth may take place in the remaining tissue, while the effused blood becomes organized and gives bulk to the mole. In a case of cancer of the ovary, posted by a friend, I removed some time previous what I termed a retained placenta, which was in the uterus of that unfortunate woman five months

The maternal placenta is formed by the decidua The fœtal placenta is formed by the villi of the chorion, which, having originally covered the entire surface of the ovum, atrophy over the major part of the surface, while they ramify and develop, tina, where they become imbedded and constitute the vascular mass known as the placenta. To study changes in the chorion amounts to studying the lesions of the placenta, and the reverse Now, these changes may relate to each of the placental elements, t c, the vessels and the villi

Not infrequently a considerable effusion of blood takes place immediately beneath the amnion, encroaching greatly upon and sometimes rupturing the amniotic sac, and Cazeau (1876, page 578) gives which accurate diagnosis can be made previous to further happen that the placenta, maintaining its vascular adhesion with the internal surface of the organ, continues to develop after the child's death, the cord and fœtus becoming atrophied, and then completely destroyed, or, indeed, the ovum may rupture, and fications, but the most common is the morbid product known as a fleshy mole." The inner aspect of the cavity then presents an irregular nodular appearance, and is of deep red, almost black color the nodules are incised they are seen to be composed The foeral surface contains nuof firm blood clot merous blood cysts The tissue microscopically I present here

If not immediately thrown off, growth may continue in the tissues, and a bulky fleshy mole results The connection between the ovum and the womb being most intimate at the placental site, changes go on most actively at that spot, and when blood is largely effused here it constitutes what is called apo-Examination of the carneous plexy of the ovum moles shows the decidua vera to be the chief seat of degenerative changes, but in all cases chorion villi may be found, though much altered by fatty and molecular matter Fatty degeneration may be exeration may be met with, forming what the Germans term the Steinmole, but such degeneration of other uterine bodies may occur, as fibroids, etc , and therefore clear evidence of conception should exist before Blood polypi are

delivery at full term, in which, organization having for treatment and our recognition was mutual taken place and communication being established between the clot and the uterus, degenerative changes | her to the Women's department go on to the extent of calcification, whereby the socalled Steinmole may be produced

2 Vesicular Mole - The vesicular, hydatid or hydatidiform mole is the better understood, if not the more important variety of the true mole, and has received the most attention of the pathologist have seen it but three times, twice in one person

will relate the cases here

Case I — Mrs S, an American lady, æt 28 years, brunette, a little above the middle size, well nourished, had one child, æt 5 years, and two miscarriages, one of which was twins, I attended her in both I was engaged to attend her for what we both thought a normal pregnancy She could not tell me how long she had been pregnant, but from indication I judged Her family history is her to be about six months I have some doubts as regards her husband's morals though I have never treated him She sent for me on account of a show I made no examina tion, but treated accordingly She increased rapidly in size, at the same time the dribbling of blood continued, and she says, she felt not at all like carrying her first child, and therefore feared that all was not She was confined to her bed and probably a month later I was again sent for, she having at my former visit requested me to wait until I was sent for I saw her very anæmic, having constantly lost blood and small masses, which she told me were blood clots Examining the abdomen by inspection and palpation revealed a boggy sensation, the abdomen had the same appearance as in dropsy, the uterus was not at all conical but seemed transversely more wide

Digital examination revealed a protruding mass through the os, and withdrawal brought away numerous vesicles The diagnosis of vesicular mole being explained, permission was freely granted to remove the mass, which was with some difficulty ac complished The patient making a very slow and tedious convalescence

Case 2 —Mrs L, present age 42 years, at my attendance six years ago 36 years A Russian woman, well nourished, at the present time she has given birth to thirteen living children, the oldest 23 years, the youngest 18 months, eight are still alive has had two living children since my attendance in She was married at the age of 15 1882 Her husband has perfect health as regards specific diseases When I attended her in 1882, I was called for a hæmorrhage from the uterus This was very profuse On examination I found a large mass filling up the whole vagina and protruding externally, which I at first mistook for a blood-clot The tissues of the mass were easily torn in attempting removal, which was accomplished with great difficulty The mass I removed by scooping out the tissues with my fingers, and a uterus and vagina with vinegar and water injections Three or four days after my patient mysteriously dis- nancies, sometimes during pregnancies

occasionally met with, arising after miscarriage or brought her youngest child to the Jefferson Hospital complained of some uterine trouble, and I referred Five days afterwards I was sent for

She was in bed, complained of slight pain and hæmorrhage, and I gleaned the following history Since I removed the previous mole in 1882, she had been in good health, and had given birth to two living children, the youngest was 16 months old Since then her health has been variable, and for the last five months she had constantly a uterine hemorrhage, intermittent in character For this she sought treatment at the hospital, and since then has had pain of variable intensity whilst the slight hæmorrhage ceased, to give place to more copious hæmorrhage for which I was sent for On examination I found the vagina filled with a mass of tissue and bloodclots, part of which I removed at once and have here The next day removal of other portions was undertaken, but with great difficulty, the parts being torn in the attempt Ergot and tamponnage with irrigations and curetting, enabled me in about ten days to remove the whole of the uterine contents

My patient is making a very slow and tedious recovery and is still under treatment for symptoms of sub-involution

ETIOLOGY—Like fleshy moles, the etiology has not been fully explained We are still not assured whether the cause of this variety is primarily in the ovum, or in the diseased deciduæ, or if it originates from the maternal cause—the blood of the mother Ruysch, Scanzoni, and Graily Hewitt, find it in the death of the fœtus, but moles have been found with It is not the death of the ovum living children alone that can be directly the cause even if a neoplasm should ensue after such a death. That the cause may he with the mother we have such cases on record in which the desiduæ is diseased, or other pathological affections of the uterus exist, and where moles are found more than once in the same woman Virchow attributes it to endometritis, and this is the generally received opinion in Germany to-day Mayer, Depaul, Harkin, Puech and Hecker think that in the formation of the allantois is the origin of the anomaly, as we find cystic or vesicular or hydatidiform formation in the placenta or in the villi of the chorion This may be reasonable to suppose the reason that one ovum may degenerate into a mole whilst the other may be perfectly normal Charpentier, (Vol p 253, Ency Obstet and Gynæcol) says "It is probable that the myxomatous lesions begin in the abundant mucoid tissue of the villosities, and that

this tissue becomes infiltrated with fluid Frequency - Vesicular moles are rare, though partial degeneration of placental tissue may make it more frequent It is found oftenest in multipara of 25 to 40 years A molar pregnancy is apparently, to a certain extent, a predisposing cause large quantity was thus removed I irrigated the instances vesicular moles repeat themselves more than once,in the same woman, sometimes after pregappeared, having forgotten to pay me, and I never (Virchow's Archiv 1870, Bd 41, p 461) relates a san her again until three months ago, when she case where a woman eleven times carried a mole

and at the same time a full-term child Depaul-in the same journal—relates a case wherein a woman had a mole three successive times Bloch (Jas Blasenmole, Freiburg, 1869) says age show a greater tendency or disposition to moles First pregnancies are rarely so affected One pregnancy quickly following another point to a predis-

posing cause to molar pregnancies SIMPTOMS —In the beginning are rarely marked The same symptoms as of ordinary pregnancy are The bulk of the uterus those most usually found increases with great and disproportionate rapidity There is a tendency to the loss of ovoid form and the | be attributed directly to the mole is that of rupture assumption of the globular or more transversely wide of the uterus mentioned by Madame Boivin shape Generally there is evidence of some derangement, by the appearance of a watery and sanguineous discharge, later on small vesicles come away, and then the diagnosis is clear, but in their absence diag-According to Percy, there is an nosis is guarded alternation of small hamorrhagic and watery flows, commencing in most women at the second month, and continuing at longer or shorter intervals until Gardien observes that the expulsion of parturition hydatids is usually accompanied by hæmorrhage and syncopes, and Depaul has observed the same peculi-This mole can reach the size of a child's head and weigh 1000 to 1500 gms or more

Physical examination often yields important infor-Palpation may give, as Leishman remarks, a significant sensation of bogginess, with absence of the irregular fœtal hardness Hardening under manipulation is very significant of the uterine nature of the tumor On examination, a doughy sensation may be experienced in the lower segment of the Should the os be open, vesicles may be felt To the touch they somewhat resemble recent bloodclots

Course -From three to four months uterme contractions set in with pain, discharge of blood, serum, mucus, etc, vesicles come away and the mass is slowly discharged It is a very tedious process, as it is a rarity for the mass to be discharged in toto Generally it is discharged in pieces and the woman fect suffers greatly from loss of blood, shock, etc rule, the whole course of this disease is from three to six months (Kleinwachter) though cases are on record where its course was prolonged to nine or ten months, or longer even than normal pregnancy Underhill (Amer Jour of Obstet, 1879, p 182) relates a case of molar pregnancy which lasted one year rare thing for a normal and molar pregnancy to take place at the same time As an exception Caspari relates (in Virchow's Archiv Abgang der Mole in mole en masse der 20 Woche and 3 Tage spater Jener einer 4 monatlichen faultodted Frucht) a casein which a mole was discharged and three days later the fœtus in a state containing a fœtus or parts of one, and possibly fluid of putrefaction

disease is impossible. If the uterus enlarges too the umbilical cord, the fœtus having been dissolved rapidly, that is disproportionate to the time, vesicular moles may be suspected When mucus, blood, and above all, vesicles are discharged, ther the diag- less complete effacement of the central cavity formed nosis is assured The older authors did not consider by the amnion, the place of which is taken by a mass the mole as always due to pregnancy, and claimed of soft, yellowish, spongy tissue

that the mammæ did not develop That is not the case, for Cartercau has demonstrated the abundant They said the mother did not feel presence of milk "Women of advanced life, but there are moles where the child is born liv ing and at term Finally, the uterus shows the ordinary inequalities, and all the signs of pregnancy nausea, vomiting, etc., may be present

Prognosis —For the mother is always grave The source of danger is the frequency and intensity of the hæmorrhage In many cases the mother succumbs, not from development of the mole, but from The only instance where death could hæmorrhage hæmorrhages are usually moderate at first, and usually only become serious towards the end of pregnancy, and at the moment of expulsion If a physician is in attendance the prognosis is more favorable than when such pregnancies are left to themselves In some cases the vesicles are retained so closely to the uterine wall that it is with difficulty they can be dislodged, care should be taken in removing them, again, if the tumor be of extraordinary size, the prognosis should As a rule, we should look with signifi be guarded cance upon the size of the mole, the partial or total extraction, and the intensity of the hæmorrhage, be-In those instances where fore we give an opinion women have had several vesicular moles, the prognosis is more favorable

For the child the prognosis is always serious If the fœtus be not liquefied or dead, it is always injured

and ailing, and ill-prepared for life

PATHOLOGY —It is well to state at the onset that the name "hydatid" mole is erroneous and misleading There are no true hydatids or echinococci in it, the physical arrangement of the vesicles is different True hydatids are closed sacs, contained one within another, while the vesicular mole is formed by sac-It was formerly cules growing from one another supposed that they grew from a common stalk, and they were likened to a bunch of grapes or currants, but for the reason given above the simile was imper-

The vesicles vary in size from a chestnut to a pin's head or less, usually they are about the size of small currants, and as a few may from time to time escape accompanied by more or less sanguineous discharge, Gooch's simile of "white currants floating in red currant juice," is a very apt one

Dubois and Desormeaux describe three varieties of hydatidform moles 1 The embryonal hydatid mole 2 The hollow hydatid mole 3 The hydatid

The first variety consisting of a membrane, vesicular on its outer surface, with an internal cavity

The second kind is like the first, save that its cav-DIAGNOSIS —The diagnosis at the beginning of the ity contains only fluid, and possibly a remnant of

The third variety is distinguished by the enormous development of the hydatid bodies, and the more or carefully investigated by Robin, Barnes, Metten-hyperplasia results heimer, Paget, Henitt and others According to hydatidiform mole has its origin in the chorion, and the microscopical examinations of Prof Robin exhibited still more clearly the true nature of the disease by showing that the envelope of the vesicles have all the anatomical characteristics of the walls They become dropsical, of the villi of the chorion swell up, the pedicle of these dropsical villi is formed of the base of the villus affected Goocn likened them to currants, Cruveilhier to grapes These speouter surface of the little cysts, formed by the transformation of the cells of the villi, a new growth of villi arises, and that these again are morbidly altered into similar cysts, and so on Dr Graily Hewitt (London Obstet Soc Transac, vol 1, p 249) says there is no new formation at all

All authorities agree that the vesicles grow from the chorionic villi There is no new formation, but excessive and erratic development Mettenheimer. Paget, Barnes, Virchow and others, concur in this Whether the change is the cause or the consequence of the death of the embryo is unsettled It may be some innate morbid condition of the ovum, or some acquired defect Dr Hewitt thinks that the starting point of the abnormality is the death of the fœtus rather than this latter is the result of the

degeneration

Leishman points out that the period within which degeneration of the chorion villi may originate does not extend probably beyond the tenth week, that and multiplication of the villi Later on when blood vessels have occupied the bulk of the villi this kind of degeneration seems incapable of formation probabilities therefore are in favor of the formation taking place in the first chorion or vitelline membrane

Normally, only those villi that correspond to the placenta develop progressively, but if a pathological condition supervenes very early in pregnancy, they all proliferate and become hyperplastic Abortion tioned this several years ago usually follows, but it may happen that the placenta develops normally, only a certain group of villi betion of the cotyledons may be affected

In any case the affection begins as a multiplication of nuclei and cells

Whether simple hyperplasia or a hydatid state rein the parenchyma of the villi, but they have no Jakobson (U H f G u f Bb 13, p 122) relation to the development of the vesicular mole deny that some cells may disappear, or may undergo the peritoneum a fatty change, but they often persist in great num-

Moles of all kinds are covered by a thick mem- bers, and the principal accumulation is relatively brane, which is in immediate contact with the uterus, large, the tissue becomes cystic in appearance and which is nothing but the decidua It has been Where the fibrinous portions are in excess, a simple

Thus these tumors are formed A villus whose Cazeau, M Velpeau was the first to discover that the normal diameter may be hardly half a line, may be dilated to half an inch or more The larger they get the more characteristic they become of mucoid tissue They become clear, transparent, and gelatiniform They contain a ropy liquid which gives the reactions of mucin

The vesicular appearance depends upon the deli-

cacy of the liquid-filled tissue

This development has nothing to do with the vessels, but if it occurs late in pregnancy, the vesicles cimens show both Mettenheimer thinks that on the may become the seat of an extremely rich capillary plexus But vessels are usually absent, at least in eggs coming from the first month, and dropsy of the amnion and atrophy and death of the fœtus occurs in consequence of the disease which cuts off the circulation (Charpentier) Hence, the different descriptions given by authors, and the three kinds of hydatid mole, they are only degrees of one and the same lesion, varying from a simple faulty conformation to complete destruction of the fœtus and the cord

The theories concerning the vesicular mole may be summed up as Duchamp says, in the following propositions I The vesicular-mole is entirely independent of pregnancy 2 The vesicular mole increases under the influence of pregnancy, but is not due to a disease of the egg 3 The vesicular mole is due to a change in the product of conception, from a alteration of the vascular wall (Cruveillier), b alteration of the lymphatic vessels, c dropsy of the chorinal villi (Robin, Cayla), d Myxomatous de-generation (Virchow and the Germans, Ercolani, being the period of greatest activity in the growth Damaschino, Cornil, Ranvier, Hirtzmann, 1874, Jo-Of these the theory of Virchow is sephson, 1879) the accepted one, for the following reasons r The normal villus contains mucoid tissue, it is not astonishing that it should hypertrophy 2 The vesicular fluid contains mucin According to Gscheidlen, it is composed of chloride of sodium, 3 34, phosphoric acid, 0 74, albumin, 6 12, mucin, 2 94, salts, 6 25

Cases are on record in which a repetition follow each other in the one case, Dr McClintock men-Again in some cases a cotyledon of the placenta may undergo such a change and the child be born at maturity alive, but generally coming hydatid Usually, however, the affection is it is carried until labor and then delivered dead situated just at the placental site, though only a por- Such cases are recorded by Hunter (Lancet, 1846, p. 434, vol 1), Krueger, Virchow (Krankhafte Geschwülste, Bd 1, p 405), Martin, Conche et Totan, Vesicular mole can also be carned at Breus, etc the same time with a healthy child, as a twin which sults, it is very common to find the isolated vesicu- is born alive (Viaidel, Boivin, etc), and again there lated cells which Virchow has designated physali- may be extra- as well as intra-uterine moles, as well phores They are found in the epithelium as well as as double extra-uterine molar pregnancy described by

Barnes relates a case in which the vesicular mole The morbid process corresponds to that described as was so intimately connected with the walls of the the mucoid degeneration of cells Virchow does not uterus that the vesicles penetrated the wall even to

Schræder refers to a case by Volkmann, and one

by Jarotsky and Waldeyer in which this occurred The vesicular mole belongs to a class of pathological products known as myxomata (Virchow, Cornil, Ranvier, Malassez and de Sinéty, have demonstrated the identity of the vesicular mole with myxomata of other regions

An analogous degeneration of the placenta has been described by Virchow and Hildebrandt as "fibrous myxoma" of the placenta Schreeder quotes cases of "diffuse my coma" of the placenta by Breslau, Eberth, Spaeth and Wedl

A case of myxoma, or hyperplasia of the choronic villi, is related by Dr Sinclair, in Vol 1, of the Publications of the Massachusetts Medical Society

Different synonyms are Hydatid, or vesicular mole, cystic degeneration of the chorion and placenta, dropsy of chorional villi, myxoma of the placenta

TIME OF THE FIRST HÆMORRHAGE AND ITS DURATION IN HYDATID GESTATION

Names of Authors	Time of 1st Hæmorrhage	Time of Delivery	0	Duration I Flow
Dumau eau,	45 days	S months	63	₂ months
Mme Boivin,	45 "	4 "	32	Ž (1
Littre,	2 mos	4 ···	4	46
Crowfort,	3 "	7 "	4	* *
Louville,	3 "		4	"
Percy,	3 "	7 " 8 " 8 "	4 5	t t
Mme Bowin,	3 " 3 " 3 " 3 1/2	s "	4%	<i>(</i>
Pichart,	4 "	4 "	• • •	
Millot,		4 "		
Delamotte,	4 " 5 "	4 " 5½ " 9 "	15	days
Percy,	Ğ "	9 "	3	months
Bremser,	7 "	ξ "	Ī	"
Tolly,	7 " 8 "	10 "	2	•
Bandelocque,	11 "	11 "		
"	16 "	14 "		
Rosenthal,	6 "	, "	I	**
"				
"	II "	16 "	5	"

OBSERVATION DURATION OF HYDATID GESTATION IN CASES

Women	delivered " " " " " " " " " " " " " " " " " " "	at	14 11 10 9 8 7 7 6 5 4 3	months, "" " 8 dys "" ""	1 3 3 4 1 1 5 2 3 4	case	,
		Total,			28	Case	2:

TREATMENT —The treatment of all forms of molar pregnancies consists in the complete removal, whenever practical, of all the diseased tissue The special treatment is of the hæmorrhage General measures and expectant treatment if slight, tamponning if it The expulsion of a few vesicles during the pregnancy does not affect the treatment It is a common thing to recommend oxytocics, preferably ergot, but if this fails to insure the expulsion of the life mass, recoure must be had to other methods We can scoop out all we can reach with our hands, this implies a dilated or dilatable os, and it will be fortunate if we meet with this If not, dilatation will studious, thoughtful practical physician, accomplishes

be necessary, either by the finger or by means of tents, or Barnes' bags A very useful contrivance used in the removal of the fleshy mole is the Beecher forceps, termed by him a "New Abortion and Placenta Forceps" A description can be found in the Medical News, 1883, xlii, 259 The advantages are It is adapted to the removal of the fœtus in abortion, and the placenta, moles, etc, taking hold of a larger portion at a time without in the least imperilling the mother's parts Besides what may be caught in the jaws, if any portion of the mass extend beyond and between the blades behind the shoulders, they are also held without being crushed through, as would be the case in the Bond instrument, with its closely approximate blades, and greater purchase is given upon the mass The fenestrum allows a protrusion through it, and prevents the crushing through the placenta without the ability to remove a portion of the mass other than in shreds It can also be used as a dilator

In some cases the moles adhere to the uterine wall as firmly as a placenta glued by fibrinous deposits In such cases a curette is necessary If the diseased tissues be not removed entirely the portions remain ing may give rise to grave and exhausting discharges or the recurrence as before mentioned

It is also important to remember in this connection that twin pregnancies may occur in which vesicular degeneration affects the membranes of but one It is well, therefore, to bear in mind the pos sibility of this, and that the sound ovum may develop to full development

Even after evacuating the uterus there may be a good deal of hæmorrhage If so, repeat ergot, use abdominal pressure, and give iced drinks, etc The slow convalescence may be hastened with iron, nu, quinine, nutritious food, wines, etc., as the case may indicate

517 Pine St, Philadelphia

PEROXIDE OF HYDROGEN AS A REMEDIAL AGENT Read before the St Louis Medical Society, February 4, 1888

BY I N LOVE, MD,

CONSULTING 1 HISICIAN TO THE CITY HOSPITAL, ST LOUIS

I am aware that there is a disposition upon the part of some workers in the profession to decry the merits of those whose efforts tend in the direction of therapeutic investigation, and the application of reme dies to the relief of disease, the rather appreciating pathological research and the study of the phenomena of disease

Fully recognizing the importance of closely and carefully scrutinizing the anatomical, physiological and pathological panorama that may be presented to our view, I cannot refrain from suggesting that after all the main object to be attained is the relief of suffering and the prolongation and saving of human The most profound pathologist would be powerless for good did he not have as an ally the delver among drugs searching for the means of mastering the microbes which he has discovered, and the

substantial success who promptly applies the knowl edge gained by both workers, and all are co laborers aiding the securement of that grand millenium when man will pass from the cradle to his second infancy without the shadow of suffering or a thought of disease

familiarity with the make-up and mode of action of mentation these medical and surgical tools is essential to their

graceful and efficient use

Hydrogen," the formula of which is H.O., and which acids to peroxide of barium Meissner, in 1863, proved its presence in the rainwater collected during thunder storms, and this has been corroborated by test of its value Schonbein, Struve and others The usual prepara- knowledge upon this subject, I herewith present the tion of a solution of peroxide of hydrogen depends following cases upon the decomposition of barium peroxide by hydrocloric acid (carbonic or hydrofluoric acid may) be used) in the presence of ice cold water, and the precipitation of the newly formed barium chloride by means of sulphate of silver Such solutions usually contain about 3 to 5 per cent of the peroxide, and are concentrated by freezing, the last portions of water being evaporated in vacuo over sulphunc acid at a temperature not exceeding 68° F In this form it is a colorless, transparent, syrupy mitted to get out of bed. At this time diphtheria liquid, with a specific gravity of 1 452, does not congeal at 22° below zero (F), volatilizing slowly and without decomposition at the ordinary temperature It is decomposed when exposed to the sunlight, or when heated or brought into contact with charcoal, silver, gold, the platinum metals, the oxides of maganese, alkalies and other compounds concentrated form the peroxide, if brought under the conditions favorable, may decompose with explosive violence, and in the presence of the oxides of the metals mentioned they are reduced to the metallic state

Many other bodies act less energetically or are oxidized Litmus and tumeric paper are gradually bleached, and the skin may be turned white by its application, accompanied by itching In the strength to which I am now referring it is without odor and has a harsh and bitter taste, soluble in water in all proportions, which solutions are decomposed by the same agents as the pure compounds, but less vio They are made more permanent by adding a small amount of mineral acid

The commercial peroxide of hydrogen is a 3 per comforts cent aqueous solution, and is prepared on a large scale for the bleaching of animal products such as feathers, hair, silk, bone, etc It is known as "ten of symptoms volume peroxide of hydrogen," owing to the fact

the greatest amount of good and secures the most amount of sulphuric acid, and afterwards a standardized solution of potassium permanganate as long as the latter is decolorized From its very nature this agent should be a powerful antiseptic and a destrover of microbes, anything which accomplishes oxidation as rapidly, if it can be applied safely, must be an excellent application to purulent surfaces for its cleans-Huxley has said that an exhaustive study of drugs ing effect. It has been administered internally for on the part of physicians, was not necessary to their diabetes, but without success Its recommendation proper application to the cure of disease any more for some forms of atonic dyspepsia, would seem to than a complete knowledge of the manufacture of be reasonable, since we know that condition to be surgical instruments was necessary to their suc- frequently due to a catarrh of the gastric mucus surcessful use by the surgeon, however, a practical face accompanied by excessive secretion and fer-

I find there is considerable variation in the effectiveness of solutions coming from different drug The medicament to which I propose to direct stores, this may be due to a failure to protect it from your attention in this paper is the "Peroxide of the sunlight. It should be kept in opaque bottles at I have secured uni a temperature not above 77° was discovered in 1818 by Thenard, by adding dilute form satisfaction from the solution manufactured by the G Malinckrodt Chemical Co of St Louis

> The clinical application of a remedy is the best As a contribution to the fund of

Scarlet Fever and Diphtheria -R H, aged 4 years, an unusually intelligent and interesting boy, developed scarlet fever Dec 22, 1887 nounced case, temperature vibrating for several days from 102° to 104°, throat quite sore, some disposition to ulceration upon both tonsils. Within a week symptoms much modified, temperature ranging in the neighborhood of 100°, where it remained for four days, child being quite playful but not perbecame a complication, involving the pharyix and The secretions from all the the nasal passages mucus surfaces were very profuse and purulent in character, and suffocation at times seemed imminent from its accumulation, and the odor was extremely offensive to the patient as well as the attendants well organized fibrinous exudation appeared over the surface of the tonsils well forward to the palate, and upward to the posterior nares The submaxilary and sublingual glands were much enlarged and en-Wherever a mucus surface was visible, if not covered with diphtheria membrane, it was violently inflamed nearly to the point of ulceration, and exuding a purulent and almost disgusting discharge Temperature ranged in the neighborhood of 104° and 105°, and almost constant paroxysmal cough was present, due to the general irritation, and accumulated secretions, and at times a marked asthma was present, owing to reflex irritation, dependent upon the inflammation of the posterior nares general conditions were alarming, the child being almost in a state of frenzy, owing to his many dis-I shall not give in detail the notes of the case, as I only cite it as an illustration of the value of a particular remedy to relieve a particular senes

Having been using the peroxide of hydrogen in that it yields about ten volumes of active oxygen various strengths for some months as a purifying and which may be estimated by adding a sufficient stimulating wash for purulent ulcers, sinuses, and fistulæ, as well as diphtheria, I concluded to use it as management of no disease, in my judgment, is it so an application in this case. Diluting it with one necessary for the attendant to be ever on the alert part to two of water for application to the nasal as in diphtneria. He should sleep on his arms, so passages by means of a syringe, and using it in its to speak, with one eye open, anticipate his enemy purity by means of probang and absorbent cotton to rather than run the risk of a surprise Well supplied the pharny the pus, and accumulated mucus cleaned out from just enough," and possess an abiding faith in its effi all the surfaces as if by magic bright little hero, and, though semi delirious, he course with remedial agents that we do with friends, helped materially in its application, and also in the study them, try them, weigh them in the balance thorthe removal of the oxidized purulent matter nasal passages, front and back, were soon cleared trust them out, the fauces as well were kept in a comparatively they prove faithful clean condition A good opportunity was now pre- be presented, accept it if it stand the test and prove sented for applying the solution in its purity to the worthy In short, let us not drop an old friend for a membrane direct, and the disintegration of the same new unless the first prove false and the second give was accomplished after repeated application in a evidence of virtue. As an adjuvant in arresting the very decided manner in contact with organic matter, a marked effervescence | the peroxide of hydrogen will stand the test of time and bubbling ensued, and a breaking down of the accumulation or exudation and throwing off of the have applied the peroxide of hydrogen in strengths The beneficial effect of the applicasame occurred cation was apparent, all the distressing symptoms were much abated, and within three or four days One thing quite noticeable they had passed away was, the fact that the constant spasmodic cough subsided after the removal of the purulent secretions from the nasal passages

The success in this case was similar to that in six other cases, and I quote this one as illustrating the class, not desiring to indulge in repetition by reporting them all This child was in a most dangerous condition for many days and nights, and I do not claim that the peroxide of hydrogen saved him, but it certainly helped to do it, in that it enabled me to combat the local poison, acting as an antiseptic, a germicide applied to the fauces in the same manner A free of the most pronounced character, a remover of purulent septic matter and offensive odors, aiding in the conservation of comfort to patient and attendants

Constitutional measures were, of course, never lost sight of, constant attention being directed to excretion, sedation stimulation and nutrition Other local measures were of course used, the peroxide serving as irritating germ, and possibly the agent used above a means of "clearing the track" for the application killed the microbe of soothing and healing ointments to the nasal passages and the spraying of all the surfaces with Listerine and other remedies as indicated

En passant at this point permit me to remark that I have no patience with the practitioner who permits himself to be overcome by a physical, mental and scientific inertia, so that he can sit idly by and trust If one's house entirely to the vis medicatrix natur a is on fire and he trusts to nature instead of turning on the hose, the chances are that he will sleep on the The "theracommons unless a friend takes him in peutic nihilist" should change his calling The practitioner with no faith in physic, who, like Solomon, cries out "All is vanity," gives evidence that he has mistaken his vocation, or, like Solomon, indicates What would one that it is time for him to abdicate think of a soldier who was ever decrying the ments of his cause and gun? Either that he has a poor cause and an inefficient gun, or does not understand trouble, but would suggest from the manner of its the one nor know how to use the other In the action that it is worthy of trial

I soon had the satisfaction of seeing with ammunition, ready to use it "not too much but The child was a cacy In wrestling with disease let us pursue the The oughly, and if not found wanting adopt them and Then let us stick to them as long as If they fail us and a better one Wherever the solution came destructive tendency of diphtheria I am persuaded that

Purulent Ozana and Chronic Nasal Catarih-I varying from 1 part to 3 or 6 of water in four cases of the above character during the past month favorable reports have been given me, enough so to justify me in considering it of great value in this A sufficient time has not elapsed to enable trouble me to determine whether it will secure a permanent The application was made three times daily

Acute Coryza - The peroxide in the proportion of I to 4 of water was applied freely by means of a syringe through the nostrils, a hard rubber syringe gently throwing about 2 tablespoonfuls into each nostril while the head is thrown backward back through the posterior nares, carrying the completely oxidized mucus secretion with it. It is then sneezing and perfect discharge follows cation is made about once in four hours in the begin ning and less frequently later Three such cases were greatly relieved after first application and cured inside of a day or two It is well known that influ enza, in some cases at least, is dependent upon some

Whooping-cough -In two cases where the paroxysms were frequent and violent I have had great sat isfaction in seeing the frequency and severity much modified by the use of the peroxide of hydrogen (r to 4) twice daily, and the attack was unquestionably cut short

Reflex Asthma -Two cases of reflex asthma intercurrent during an attack of diphtheria and a general catarrhal fever, dependent upon the irritation in the post-nasal space, were promptly relieved after a few applications of the peroxide (1 to 4)

Follicular Tonsillitis - Very satisfactory results were obtained by using the remedy as a gargle (1 to 3) every two or three hours Listerine, callendulæ, tincture of iron and other soothing, stimulating and astringent remedies were used by the atomizer between the intervals

Hay Fever -I have not used the remedy in this

Cancer of the Womb —In this affection I have had great satisfaction in using the peroxide in its purity as a cleanser, deodorizer, and stimulator of healing in that portion of the ulceration probably dependent upon the irritating effect of accumulated purulent The gratification and comfort to patient and attendants secured by the application well repaid One who has never observed the horrible stench in the room of a neglected cancer of the womb can have no conception of the value of the drug in this connection Dr Joseph Grindon, a dermatologist of St Louis, informs me that he has used the agent to remove pigment spots from the skin is the main remedy furnished by dealers to weakminded women for blonding the hair

It is needless for me to continue to cite cases and conditions where the peroxide of hydrogen will prove I think it worthy of trial in gonorrhæa

After a six months' trial of the peroxide of hydrogen, considering the nature of the agent and its effect concluding

I The peroxide of hydrogen is a most efficient means of cleansing purulent surfaces, deep cavities and sinuses, and stimulating the healing process in ulcerating parts

As a destroyer of microbes it is of great value as a local application in diphtheria and scarlet fever,

ozæna, coryza and whooping-cough

3 For the above reasons it should prove of value in gonorrhœa, hay fever, and similar disturbances probably dependent upon specific germs

FACTS IN RELATION TO EMACIATION

Abstract of Paper read before the Medical Society of the District of Columbia

> BY THOMAS TAYLOR, M D, OF WASHINGTON

For several years past I have devoted much of my time to the crystallography of animal fats, and have examined, crystallized and photographed the fats of several hundred animals, and a few vegetable oils In the prosecution of this inquiry I observed inci dentally, that the fats of several monkeys, victims of consumption, when rendered, strained and cooled, at a temperature of about 70° F according to my usual method of treating fats in order to crystallize them, exhibited but a trace of the solid fats, the mass consisted principally of olein From this fact my attention was directed to the consideration of the fat of human beings, subjects of emaciating diseases, from whatever cause I have tested the fats of three con sumptives who were greatly emaciated The fats were crystallized in the usual manner-boiled, strained and cooled, at 70° F - and, when examined, were found to be nearly destitute of solid fats, olein largely predominating

While the cases cited are insufficient data for determining what may be the invariable condition of the worthy of attention, and I propose to continue these and edited by M Apery

researches in order to ascertain whether the condi-If in the animal tions I have stated are constant economy, it can be shown that there is a greater tendency to oxidize the solid fats than the oil, in cases of high temperatures and emaciation, valuable information will be gained

With regard to the composition of fats in general, they consist of three distinct fats, viz olein, palma-These are known as glycerides of tin and stearin the fatty acids oleic, palmatic, and stearic Early chemists applied the term margarin to a substance they believed to be a simple fat, but modern chemistry has demonstrated that this substance is merely It has been a combination of palmatin and stearin demonstrated that the fat of milk and butter contains but a trace of stearin, and that it is composed mostly of palmatin and olem, and it is also stated on high authority, that the fat of man is of similar composition

In my investigations relating to the forms of aniupon purulent matter and bacteria, I feel justified in | mal fat, I have observed that the crystals of human fat have a marked resemblance to crystals of milkbutter, suggesting the importance of the use of milkbutter as the proper form of fat for man, and superior to fats which consist largely of stearin, such as some oleomargarines I have tested

According to modern chemistry stearin requires a temperature of 144° F to melt it, and in each succeeding fusion a still higher temperature is required this reason the common fats cannot be as well adapted for the sick as butter, which melts at blood-heat Therefore I think it might be well to test the value of pure butter as a substitute for other forms of fat now In this case I would in use in cases of emaciation suggest that butter used for this purpose be boiled and strained to remove its casein, the casein of milk frequently proving very indigestible and unbearable to a weak stomach

Milk, the natural food of man, contains all the essential proximate principles necessary to build up a perfectly healthy human being, but the butter fat of milk contains but a small proportion of nitrogenous matter as compared with the milk from which it is made, therefore, butter of itself does not afford sufficient nitrogenous matter to sustain life but for a limited period As it is desirable to make sure that the diet contains a proper amount of nitrogenous matter, in an acceptable form, I recommend the use of peptonized beef, in other words, digested beef, in connection with butter so treated Such a combination would build up the vital tissues

As the solid fats of butter contain a larger amount of carbon than is found in the same amount of oil, the oxidation of these solid fats would contribute more animal heat than would the oxidation of the oil In this process water would be formed, the elimination of which would lower the temperature of the body, thus tending to arrest the destruction of the tissues

The "Revue Médico-Pharmaceutique is the title fats of emaciation, I deem the facts thus far observed, of a new journal recently begun in Constantinople,

MEDICAL PROGRESS.

THE TREATMENT OF WOUNDS BY IODOFORM TAM-PONS — DR F BRAMANN reports (Archiv fur klimische) Chaurgie, Berlin 1887) the results of treatment of wounds in von Bergmann's clinic for some years The gauze employed is sterilized by means of steam at 212°, and after drying may be impregnated with an antiseptic solution. The sterilized gauze is used in cases of trifling operations in small wounds In larger wounds with more profuse secretion, it second time for the application of the sutures was thought best to obtain whatever advantage could be derived from the impregnation with corrosive sublimate, especially as the patients and operators are in the immediate vicinity of an audience coming direct from the anatomical rooms The cotton em-The towels, ployed is of late years merely sterilized gum cloths, sponges, etc., are treated in a like manmetal spools, sterilized by steam, and inclosed in The catgut used for deep stitches metal caskets (stitches of relaxation), and for ligatures, is kept ten to fourteen days in a solution of 4 parts bichloride, those cases in which, for any reason, as great weak-800 of alcohol, 200 distilled water This is frequently ness, or for the stoppage of bleeding from large 800 of alcohol, 200 distilled water The catgut is then changed to an alcoholic sublimate solution of 1 to 800 alcohol and 200 parts of water, and is taken direct from this The preparation of the patient consists in giving full baths, washing the region of operation with soap and water, shaving the part, rubbing the skin with ether, and January, 1888 disinfecting it with from I 1000 to I 200 solution of The instruments are kept in a 3 per During the operacent solution of carbolic acid tion the wound is often irrigated with i 2000 bichlo-In operations in the abdomen, the ride solution pleural cavity, the mouth, rectum and bladder, salicylic acid i 1000, or boric acid i 200 is employed, and at the end of the operation a solution of 10doform in ether is generally used

Next to strict antisepsis, the complete stoppage of bleeding is regarded as the chief agent in procuring

union by first intention

When the wound is dry, and the smallest bleeding vessels have been tied, the suture is applied with or without drainage, but only in those wounds which are considered absolutely antiseptic, and have not been infected through previous suppuration or con-Among the cases tact with unclean materials treated in this manner are included all extirpations of tumors, removals of breasts, amputations, osteoto-

mies, etc In wounds where the bleeding cannot be entirely stopped the formation of a large clot is objectionable, not only on account of the pressure which it may make, as in fractures of the skull, but because of the risk of decomposition and blood poisoning Although such clots may, through absorption and organization into connective tissue, aid in the process of repair, they sometimes remain fluid for long periods, and during that time are a source of danger Therefore, when it is impossible to dry the wound absolutely, or where there is the least suspicion that a nitrogenous diet it is not entirely aseptic, after thorough disinfection milk may be attained, speaking generally, by the use

with 1 1000 bichloride solution and with an ethereal solution of iodoform applied to the wound by means of a syringe, it is loosely packed with strips of iodoform gauze of several feet in length, and three to four inches broad They are applied so that the larger part of each strip lies in the wound, and the ends come out at the angles The sutures were formerly put in at this time, but this has been abandoned on account of the difficulty in keeping them disentangled, and of their adhesion to the iodo-The patient is now anæthetized a tamponed wound is covered with sublimate gauze and cotton and an antiseptic bandage If the secretions make their way through the dressings, the superficial layers are renewed, but the iodoform gauze is allowed to remain undisturbed for two days If it is then removed by gentle traction on the ends hanging out of the wound, the latter is found clean, The silk used in sutures is wound on glass or unirrigated, not reddened, absolutely dry, and it is only very exceptionally that a ligature is required Careful suturing, with or without drainage, has resulted invariably in union by first intention, even in those cases in which, for any reason, as great weakvessels, the tampon has been left in from four to six His report of his results is extremely interestdays ing, includes a large number of important cases, and appears to confirm his estimate of the value of this method -American Journal of the Medical Sciences,

> THE DIET OF NURSING MOTHERS -The influence of the diet upon the function of lactation is a subject of such importance for the rising generation as to warrant frequent investigations by scientific authorities It seems to be one of the evils inherent in a high degree (so-called) of civilization that women, in a large proportion, especially among the upper and middle classes, should suppress and ignore the physiological function of the secretion of milk, and abandon the privilege of nursing their children in a natural way But this being the case, it is desirable that the best The feeding-bottle is but a substitute be provided poor substitute for the mother's breast, and of late there is a tendency to give too diluted a milk. A wetnurse is the best substitute for the mother herself, and a knowledge of the influence of the food upon the composition of milk ought to be widely circu-DR ZALESKI, lated, at least in its chief features Docent in the University of Dorpat, is the latest worker (Berl Klin Wochenschr, Nos 4, 5, 1888) in this subject. He has made careful analyses of the proximate constituents of milk, both in the lower animals and in women, under various conditions of 1 Milk which diet, and his chief conclusions are contains an undue proportion of fat may have a very 2 A highly nitroginjurious effect upon the child enous diet causes a great increase of fat in milk, the same kind of diet lowers the proportion of milksugar, but has very little influence over the other Alcohol exerts the same influence as 3 A proper composition of the constituents

4 The lower animals are subof a proper dietary ject to the same laws as human beings in the above 5 A large proportion of milk is derived, directly or indirectly (that is, by changes in the them, three gall stones the size of marbles blood itself or in glands), from albuminous sources The above conclusions are directly opposed to the views of the laity on the subject. The wet-nurse, as a rule, is a highly privileged being, who must be allowed an unlimited quantity of butcher's meat and will, active exertion is out of the question ably the diet has been previously very plain, and too often the sudden change influences the composition of the milk to the detriment of the child Diarrhœa, of a more or less fatty character, is often the consequence, and Dr Zaleski instances a case in point quiry was made as to the condition of the child services of the wet-nurse had been called into requisi-The latter was a poor girl, whose diet and whole course of life was changed when she became a wet-nurse, and that this injuriously affected the lacteal secretion was proved by the fact that her own child had been far from well since then An ımmediate return to the previous mode of life was ordered for the nurse, with the best results -British Medical Journal, February 11, 1888

OLD RUPTURE OF GALL-BLADDER, ADHESIONS OF LIVER TO COLON AND PELVIS —In Progress, January. 1888, DR Joseph Eastman, of Indianapolis, reports

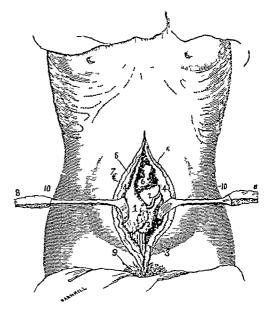
the following case

Mrs W, Chelsea, Ind, sent by Drs Phillipps, of Chelsea, and Sipe, of Orange, with this letter of diagnosis "I Ovarian, (a) solid tumor of ovary rare (b) Would probably be more movable 2 Omental tumor, (a) solid tumors of omentum are almost in variably malignant 3 Kidney, size, shape, mobility, correspond to a displaced Lidney, which I think it is It might be cancer of the kidney, but I do not think there is pain enough for that, so it is excluded Finally, as the diagnosis is not clear, I would advise waiting till fall-watching its growth and other symp-Meanwhile, give general tonics and cheer her REAMY "

Examination Somewhat elongated abdominal tumor a little to right of median line of abdomen Could be outlined fairly well by palpation It was not kidney-shaped, nor scarcely movable gave impression of much thickness Kidney of right side definitely outlined in normal position through Subjective Fourteen years ago had stooped position Contraction and pain increasing till the condition seemed to demand surgical relief

Operation October 18 Incision exposed abdominal organs as shown by 3 in figure A firm cicatricial band held the right lobe of the liver down in the right thac fossa. This was

of the liver and find the ascending colon, adherent to inner border and under surface of liver On separating gut from liver I found, "plastered" between more through wall of bladder and incised the cyst, removing fifty-one more gall stones Gall bladder shrunken and dry I here present them in box, they vary in size from a grain of wheat to tip of thumb Closed incision into gall-bladder with silk, Lembert's a good supply of stout The amount of exercise sutures, to make the closure perfect, there being no usually taken is a gentle saunter at her own sweet gall in bladder. I did not put in a drainage tube, as Prob-the gall had escaped in some way for years through ducts, or else had not been poured into the cyst Having broken up extensive adhesions on surface of liver and bowels, I put a glass drainage tube into the abdominal wound and closed the same around it Nothing of note followed, except that the patient Chemical analysis of a specimen of the milk of a has made a good recovery and is at this date, Decemwet-nurse revealed over 6 per cent of fat, and in- ber 15, seemingly cured. The liver can now be felt It to the right and slightly above the umbilious, its lower appeared that the child was alling ever since the margin at least six inches higher than before the operation



r-Right lobe of liver 22-Bowel adherent to liver 3-Cicatricial band dragging liver downward 44-Peritoneum everted by retract ors 55-Thickness of abdominal parietes 6-Bowel, also adherent to liver 7-Umbilicus 88-Retractors 9-Mons veneris 10 10-Sup crest ilium

Comment -From what information we have, this was a case of formation of gall stones fourteen years ago, with enlargement and rupture of gall-bladder, causing local peritonitis, with resulting adhesions between liver and ascending colon The alternate "spells of bilious colic," since then has felt dragging distension and relaxation of this bowel may have pains in abdomen, causing her to assume a somewhat increased the extent of the adhesions downward and inward, until the inflammatory process firmly anchored the liver to the pelvis, by the formation of My usual aseptic precau-the dense band of tissue represented in the figure

In the Transactions of the Indiana State Society, 1879, Dr Kemper, of Muncie, reports a case in some severed, thus enabling me to raise the inner margin respects similar, except in the important particular that Nature formed a bihary fistula, which cured the one generally used, for, the patient being in the ob In this same valuable contribution to the literature of the subject, Dr Kemper collects a number of cases

REMOVAL OF GALL-STONES -In Progress, Jan, 1888. DR EASTMAN also reported the following case Mrs H, set 59, living in Delaware county, Ind, near De Soto, consulted Dr Bunch, the family physician, who not being positive of his diagnosis, called Dr Kemper, of Muncie, who diagnosed a distended gallbladder, and was positive it contained gall-stones November 10, at patient's home, assisted by Drs Kemper, Bunch, Wymans and Boyden, I opened the abdomen in the median line, making an incision some five inches in length, lifted the gall-bladder up into the wound and incised it

A half-pint of inspissated gall and mucus passed Introducing my finger I could feel two gall stones the size of marbles, removing these I detected still another lodged in the duct, which was with some difficulty squeezed up into the bladder by pinching the duct below the stone It was removed, the bladder stitched to peritoneal layer to abdominal wound, and the abdominal incision closed around a small rubber drainage tube, which was lest in the gall-There was a free discharge of bladder for drainage bloody mucous through this tube for five days or When this had become less the tube was Patient recovered removed

TREATMENT OF RETAINED PLACENTA -DR LANE describes the method pursued at the Rotunda Ma-When the placenta is ternity, Dublin, as follows adherent I believe the proper treatment is to pass the hand or fingers into the uterus and detach it, although I have been informed that some Continental obstetricians allow the placenta in such cases to remain for even a month after delivery (unless there is hæmorrhage or symptoms of septicæmia), especially in the cases where the patients have not come to I consider, however, that if the optheir full time erator's hands be not perfectly aseptic, this is the most dangerous of all operations met with in midwifery practice, except the Cæsarean section has been recommended by some authorities to keep the fingers inside the membranes during the operation, but there are many cases met with where, owing to the friable nature of the placenta, necessitating the removal of small pieces at a time, this is impossi-Should there be any septic infection about the hand, and especially about the nails, the usual seat of such poison, I failed to see how such a patient can escape becoming infected, for it is analogous to vaccination, except that virulent poison is substituted for healthy lymph, and with unfortunately greater likelihood of its taking effect, owing probably to the prolonged contact The uterus, except where it has already been douched out with the hope of getting the placenta away, as I have already mentioned, is always douched with antiseptic solution prior to introducing the hand Although the left hand is recommended by many as being smaller and corresponding more with the pelvic curve, the right hand is the Annals of Surgery, Jan 1, 1888

stetrical position usual in this country, the fundus of the uterus can be better and more easily supported by the left hand (the operator standing at the patient's Nor can an assistant, no matter how ex back) perienced he may be, support the uterus so satisfactorily as the operator himself, who knows the exact part of the uterus requiring pressure as to bring that particular part of the uterine wall nearer to the introduced hand, and who is able to remove it to some other part the moment required

An anaesthetic, usually chloroform, in order that, if necessary, the hand may be passed in a second time where doubt exists whether all the placental tis sue has been detached, for if the patient be perfectly conscious of what is being done, the operator must be very resolute to be able to withstand her solicita tion not to pass the hand a second time, and I con sider that, once the hand is introduced, the operation should be persevered in to entire completion When satisfied on this point, the uterus should be again douched out with antiseptic solution -Practitioner, December, 1887

PICRONITRATF OF AMMONIA IN MALARIAL FEVER -In the Bulgarian Meditzinsko Spisanië, Nos 31 and 33, 1887, DR A GOLOVINA, lady physician to the Varna Town Hospital, writes that, at the suggestion of Professor Fr Goll, of Zurich, she tried picronitrate of ammonia, in 3-centigram pills, four times a day, in seven cases of malarial fever of quotidian type In five the paroxysm ceased to recur (in one case from the second day of the picronitrate treatment, in three cases from the third day, and in one from the Three of the successful cases were of recent sixth) origin, and two fairly old The quinine treatment had been previously tried in three of them (including the inveterate ones) without result In a sixth pa tient, however-a lad with quotidian fever of two and a half months' standing—a seven days' course of the picronitrate utterly failed to arrest the paroxysms, the latter subsequently disappearing in two days under quinine (50 centigrams twice daily) nitrate apparently gave negative results also in Dr Golovina's seventh case No unpleasant secondary effects were ever observed -British Medical Journal, February 11, 1888

DRAINAGE AND PRIMARY UNION -CHENIEUX, of Limoges, in an article on this subject, draws the fol lowing conclusions

1 Drainage is prejudicial to primary union of

wounds 2 Wounds whose edges are perfectly apposed and made aseptic should heal by primary union

3 In operations such as ovariotomy and hysterectomy, in which ligatures must be concealed and in which there are large bleeding surfaces, drainage seems to be rather hurtful than useful

4 Exuded fluids seem to constitute reserve fluids, and to be reabsorbed into the system in case of drainage they are lost, and become poisoned by microbes - Revue de Chirurgie, November, 1886 -

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All com munications in regard to editorial work should be addressed to the Editor

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SANITARY ARRANGEMENTS OF LARGE COMMUNITIES

The Inaugural Address of the President of the Liverpool Medical Institution at the opening of the session of 1887-88, delivered by DR J BIRKBECK NEVINS, and published in the Liverpool Medico-Chirurgical Journal for January, 1888, is one of exceptional interest It is an exhaustive review of the sanitary conditions of the Hebrew camp in the desert, and of the cities of Manchester, Edinburgh and Liv-The Mosaic regulations for the health of the camp in the desert after the Hebrews left Egypt are, or should be, familiar to all, and the only reference that we will make to Dr Nevins' discussion of them will be to quote the following "All dead bodies also were to be buried entirely outside the camp, a sanitary regulation in advance of our own by thousands of years, for we have not even yet entirely ceased to bury our dead in the midst of our population, and thus to pollute both our air and water We have not even attained to the wisdom which buried the dead in porous cloths, which favored the rapid oxygenation and thereby the removal of the body "

In regard to the sanitary regulations of Manchester there are several striking features The city is situated on a level plain, that is skirted within 20 or 30 miles by a circle of hills The rivers flowing by the city are rendered so impure by manufactories that the water is unfit for personal use, and the city is at such a distance from the sea that the removal of its liquid refuse is a difficult problem, as was that of removing the solid refuse from the streets and dwell

water-closets Each house has a back yard, at the far end of which is an ash-pit and a privy, with a back door communicating with the roadway between the backs of houses on adjacent streets The night-men of the city sanitary force have access to the ashpits and privies through the back door The authorities provide two pans for each house-one for ashes, vegetable waste, and other solid matters, and the other a carefully made waterproof iron pan, that is put under the seat of the privy, and removed once a The water-closets empty into the week or oftener sewers, and liquid slops from the houses without closets are poured into the sinks or into the gutters, but all solid excreta are received by the pan often as necessary a covered wagon, long and airtight at the top, and with sides that fall down by hinges, is sent to collect these pans Sawdust and carbolic acid are placed upon the bottom of the wagon, and the pan is taken from the privy seat through the door at the back, and then covered by an hermetically tight lid, this lid is so tight, and the wagons so fairly air-tight, that only a slight odor, chiefly of carbolic acid, is perceived as they go through the streets The wagons are driven into the top story of what may be called a purifying house, and the contents of the pans are emptied into a hopper, and are finally converted into a dry powder, which is readily sold for \$15 a ton as manure city guarantees that this shall contain a specified quantity of organic nitrogen and phosphates, to insure which the bones from slaughter-houses and other places are used and mixed with the powder

Here, then, is a great city converting its solid excreta into a saleable manure, by a process carried on with such care and skill that the odor in the works is not oppressive nor injurious to health, and can scarcely be detected outside the works The street sweepings are disposed of by being used to absorb liquid manure and sewage, so as to make a portable article

In Manchester, also, the ashes and other dry and innocuous rubbish are made into a saleable article, after being burned, the residue being a mass of clinkers, these contain so much mineral and siliceous material that they are valuable as a material for making mortar for building purposes, and also for making Diseased meat, dead animals, and spoilt or condemned fish are also utilized by being made into oil (used for lubricating machinery and for making soap), while the residue is turned into manure Manchester has not yet solved the sewage problem, but is making preparations for conveying it to a place ings The city contains 66,000 privies and 11,000 five miles distant, where it will be purified by precipitation with lime, and the sewage water will then that it borders upon the sea, that water-closets are be discharged into the Irwell

From a sanitary point of view Edinburgh is exceptionally interesting, partly because the city consists of three portions of about equal size, that differ so much as to require different sanitary meas ures, and partly because a very important experiment in sanitation has been carried on in it for more than a century The central and most elevated portion consists almost entirely of old houses, so constructed that sanitary improvements in them are practically out of the question In this portion 8,804 houses have water closets, and 8,664 have Nearly all the houses have a sink for the liquid excreta and waste, but the pail system is in full operation, the pails and ash pans, and other receptacles for dry rubbish being removed by nightmen The night-carts are open, but made as watertight as possible So many ashes and dry street sweepings are collected on the rounds that the pails are emptied directly into the wagons, and a practically dry load is taken to the stations for removal into In the lower parts of the city the the country scavengers' carts remove the dirt or refuse in the roadway, the walks are washed and some slaked lime is sprinkled on them This is taken up by the In the new parts of the city the waterclosets are almost universal But in the final disposal of its solid refuse Edinburgh has more trouble than Manchester, since its value when offered for sale by the city is only a few cents a ton sewage of the city, however, is abundantly utilized for direct fertilization

In Edinburgh there is compulsory notification of infectious diseases, which is liberally paid for, and compulsory removal of the cases to hospital if the medical attendant desires the cases to be so removed The system works well, the compulsory removals being especially welcomed by the hotel and lodginghouse keepers, because the medical officer has the room disinfected immediately, and then gives a The effect of this system has clean bill of health been seen on both the general and the zymotic mortality for a period of six years, commencing with 1869, the average general death-rate per 1,000 was 25 85, average zymotic mortality 17 98, for a period of six years, commencing with 1879, the average general death-rate was 19 04 per 1,000, a reduction of 25 per cent per 1,000 average zymotic mortality 11 9, a reduction of 33 33 per cent per 1000

almost universal, and privies scarcely to be found, and that all the sewage of the city is carried out to Other features are good water-supply, prompt removal of unsanitary property, improvement of ventilation by opening up courts, increased hospital provision, the scavenging of the streets, and the public urinals From 1850 to 1885 the death rate fell from 36 to 23 7 per 1,000, which is a saving of about 7,000 deaths annually Practically none of the solid refuse of the city is utilized in the manner adopted in Manchester The city has two dumping steamers that carry the refuse out to sea about two hours before high water Combustible materials, such as matrasses, etc, are burned, and the ashes Street sweepings are sent into the country and sold as manure Until fifteen years ago the dry refuse of the city was used for filling in and making This was objected to by citizens, and the ground corporation ceased to employ the cinder-waste, etc, for this purpose, though a thorough investigation made by Drs Parkes and Burdon Sanders showed that after two or three years such ground might be safely used for building purposes, without any fears Their report has been conof sanitary evil results firmed by the reports of the Medical Officer of Health of the city, and by those of the Health Officer of Manchester

The "trough closet" system is also a feature of the sanitary arrangement of Liverpool, every court, in proportion to the number of its houses, being sup-They are long deep troughs plied with one or more made of slate or some such non-absorbent material, and are placed under the seat of every closet troughs are filled about a foot deep with water from a tap out of control of the occupants of the court, but which is accessible to the night-man, who can dump the whole contents into the sewer, and then thoroughly cleanse the trough

The 249 miles of sewers of Liverpool are ventilated by grates, 4338 in number, placed in the streets at intervals of about 80 yards, the clear apertures of the grates being never less than 63 sq inches In addition to grates create no nuisance whatever the street-drain gratings the court-drains are ventilated by ventilating shafts 6 inches in diameter Every court is drained, and when there is no thoroughfare through the court the drain is closed at the top of the court

In cases of infectious disease in Liverpool the bedding and such articles as cannot be disinfected by washing are removed, exposed to a high tempera-The special sanitary features of Liverpool are ture (2120-2200), and returned in a vehicle that is never used for conveying anything previous to disin fection Infected rooms are disinfected by the burning of sulphur

Almost in the centre of Liverpool is a large abattoir Dr Nevins states, from personal inspection that no nuisance arises from the city abattoirs The manure and offal are mixed with dry ashes and The blood-clot is dried with sent into the country the smallest possible delay, and before any trace of decomposition has set in The small intestines of the animals are converted on the grounds into what is usually called catgut, and by a process that is comparatively free from smell or filth

Dividing the ten years 1874-1883 into two periods of five years, we find that the deaths from fevers fell from an average of 23 in the first five to 10 8 in the second five years, and the deaths from diarrhœa from 32 to 21 4, showing a marked decline in the diseases most likely to be produced by nuisances

UNETHICAL USE OF PHYSICIANS' NAMES

In the Department of Correspondence we publish this week a letter from Dr Charles W Kollock, of Charleston, S C, in which he makes a complaint that is perfectly just. With his letter he sent a column advertisement from the Charleston News and Courier, showing how the names of reputable physicians can get into strange places and very bad company this particular case these names are sandwiched between those of several prominent politicians and not a few so called "pulpit orators" There are in all 21 names of Chicago physicians, representing the various colleges and both the regular and irregular schools

With the clergymen and politicians that are afflicted with the apparently incurable itch of seeing their names in print, we have nothing to do except to say that if they are anxious to make a display of their ignorance they should do so in some way that will not tend to injure other and still more ignorant people that look up to them Even an Ex-President of the United States-and there is only one-stopped raising pullets long enough to give "Dr Morris Bernhardt" and "Dr Louis A Matthez" a recommendation in the following ungrammatical language "He is entitled to confidence As an optician I recommend him" The names of governors are "thick as leaves ın Vallambrosa"

The profession in Illinois have been trying for years to get rid of quacks and irregular practitioners But is it just that Chicago physicians should give

prey upon the people and the physicians of the States that have no laws regulating practice Dr Kollock is a young man, but recently embarked in his practice and specialty, and it is in the highest degree unjust to him-and to every other practitioner-that medical men are so careless in giving their names to every pretender that comes into their offices with an auto-The very fact that a man comes into graph album a physiciar's office and asks for his name is circumstantial evidence that he is going to use that name improperly To an honest man the name of another man is, as a rule, not worth carrying around sufficient reasons we think it best not to publish the hst of names sent us but the time may come, if such things continue, when such a publication would be but an act of justice to the profession at large

LEA BROTHERS & Co, of Philadelphia announce the early publication of a very important Clinical Atlas of Venereal and Skin Diseases, including Diagnosis, Prognosis and Treatment, by Professor Robert W Taylor, M D, of New York The work is to be issued in eight parts, aggregating 58 large folio chromolithographic plates, and containing about 200 figures. It is to be published by subscription

THOMAS B LESTER, M D, died at his home, Kansas City, Mo, Feb 24 1888 He was one of the oldest and most prominent members of the profession in that part of the State He became a member of the American Medical Association in 1872, and once served as one of the Vice-Presidents

SOCIETY PROCEEDINGS.

ST LOUIS MEDICAL SOCIETY

Stated Meeting, January 21, 1888 THE PRESIDENT, Y H BOND, M D IN THE CHAIR. DR MEISENBACH presented a specimen of

ATRESIA ANI

The male child from which this specimen was taken was three days old before it was noticed that there was an imperforate anus and that the child did not pass the contents of the bowel, that careful examination of the genitals of the child which should always be made having been omitted When I first saw the I found that the exchild it was three days old tremities were livid, the skin was jaundiced, and the child was vomiting a Jellowish-white fluid, there was them recommendations so that they may go off and no meconium, I think, but simply the contents of the stomach the abdomen was very much swollen, slightly tympa- the patient would not be better dead than to have the nitic. I found the perineum was very rigid. There rectum either in the lumbar or inguinal region? Of was no sign whatever of a rectal bulb, and I came to course, if this child had been seen at an early day, the conclusion that the bulb or rectal pouch must be within a few hours after birth, either one or the other very high np, otherwise there must have been some of the two latter operations might have been successindication to the sense of touch of its existence found in the raphé, at the site where the anus should the operation was concerned, but the question is have been, a slight protuberance, which is very nicely shown in the specimen here I told the mother that, on account of the length of time that had elapsed, the condition of the child and the symptoms, in my opinion, if the operation were performed, the child would probably die, and that I would not operate The father opposed the without the father's consent operation upon the grounds I have stated, that the child was then almost in the throes of death here the rectal bulb, a section of the perineum, the bladder and one-half of the pelvis of the child The rectal bulb terminates fully one inch above the perineum I left the meconium in, to show the relations of the parts more clearly

I found that the view which I had entertained that the rectal bulb must necessarily terminate very far have reached it through either the inguinal or lumabove the perineum was correct tissue does not show any development of the rectum been decided before the operation at all, it shows simply a fibrous and connective tissue development in which this malformation may occur very high or it may be a mere septum barring the If there is simply a thin septum of perineum over may be various degrees of the distance from the perineum to the bulb of the rectum Part of the colon may be absent as far as the ileo-caecal valve, and had several such cases In one case I made an inthere may be merely a cord representing the colon

way of correcting the malformation is to cut down through the permeum and attempt to reestablish the the part so that there was no trouble to make an prima via, and in some cases this is possible, and in those cases where the termination of the rectal bulb is superficial that is the operation to perform If you remember the anatomy of the infant pelvis, you will recall that the area of the perineum is very limited, we will find by measurement in the newborn that the nection, however fine, with the urethra or neck of the distance from one tuberosity of the ischium to the bladder terior diameter of the perineum from the arch of the the vagina, bladder, or into the urethra or ureters other is not over 1 inch, and also that the antero-pospubes to the tip of the coccyx is also not more than I operation is a difficult procedure, and especially so in upward toward the kidney, so that where there is but a case like this, the bowel being practically almost one kidney, there may be two ureters, one to one out of reach, so much so that it may be impossible to kidney, the other extending from the bladder a contwo operations then would be by opening the rectum should be, so the anus is formed by an invagination, in the inguinal region or in the lumbar region is not possible to establish the prima via through the ing the lower end of the bowel above permeum, resort is had to one of the other opera-It has also been attempted, after performing the operation in the inguinal region or in the lumbar region, after the patulency of the canal has been es- in the sinus urogenitalis neum, but this has proven to be a very dangerous thoroughly, and as far as ordinary evidences go, there procedure Cases in which it has been attempted is no opening communicating from the rectum to the

Upon a careful examination I found that have proved fatal The practical question is, whether I fully accomplished as far as the life of the patient or whether it would have been a practical operation as far as the patient was concerned, when you take the conveniences of life into consideration I believe a patient is better is an open question dead than to have an anus in the lumbar region or in the groin, whether that patient be young or old course this is probably not the right view to take from the standpoint of the surgeon, but I think that is the proper view to entertain from a moral standpoint

If you had seen this child in DR EDW BORCK the beginning, what kind of an operation would you

have performed in this case?

I should probably have at-DR MEISENBACH tempted to find the gut through the permeum If satisfied that I could not accomplish this I would The intervening bar region Of course that point would not have

The pathological specimen is Dr Edw Borck There are various stages or forms interesting and instructive, especially to the surgeon It may be who takes an interest in congenital malformations It may be very readily severed, or there the rectum, it is a very simple matter, but if the bulb of the rectum is high up and you cannot pull it down, the operation is much more difficult I have cision until I reached the rectum, and then operated The practical point that I wish to demonstrate is no further for three days, simply keeping the wound in regard to an operation The first and most natural open with sponges On the third day after I found that the meconium had come down and distended opening and stitch the end of the gut to the skin, thus making an opening In that case the child recovered without any bad symptoms

There is one point that should be ex-DR DEAN amined still more closely to see if there is any conwithout there being an exit somewhere, either into With an area of 1 inch by 1 inch, the neys downward to the bladder, but from the bladder If it involution or growing in of the epiblast upward, meetof the mesoblast is to unite in advance of the epi-If the splanchnopleure closes before the somatopleure, the opening may remain in the cloaca or

I distended the bowel pretty

been able to express from it some of the meconium and fluid I found no evidences of exudation out the parts I sewed that up carefully and then put pressure upon the contents of the bulb and tied it down, and found no evidences of any escape of the fluids The meconium that escaped at first through the incision was mucus tinged with green

I would suggest that a very fine DR DEAN grooved director be used to open the uiethra into the lower part of the bladder, so as to see from before backward, and see whether any point of opening into the bladder exists

DR T F PREWITT presented an

UNUSUAL TUMOR OF THE UTERUS

A few weeks ago a patient, a maiden lady, 47 years of age, came to me with a tumor supposed to be ovarian It extended up above the umbilicus, fluctuated, was evidently a cyst She had recognized its presence five years ago herself, but says that there had been something wrong about the uterus or pelvic organs for sixteen or seventeen years, at least so some physician supposed, and had advised an examshe was 12 or 15 years of age, she menstruated until not distressing news, menstruation ceased for two months, and then returned and continued until five months ago, when it again ceased There has been no indication of menstruation since that time On exam mation I could detect this rounded tumor that, as I have stated, fluctuated It was evidently a cyst On making a vaginal examination, which was a little troublesome because the hymen was intact, I could The ovaries are also intact detect the body of the uterus seemingly, and it gave to me the impression of a rather retroverted uterus from pressure of the tumor upon it I could pass my finger back of the cul-de sac of Douglass and feel the body of the uterus seemingly, passing forward around the cervix, my finger passed up to what seemed to be a sort of projection, a growth which apparently presented a sort of sulcus between the growth and the body of the uterus, as though the tumor was so closely connected with the body of the uterus that they could not be separated, that there was no space between them which could be recognized, still it had by the tumor, there was no fluctuation below, it was on it solid and hard be very much enlarged I was much puzzled to determine the character of the tumor and I saw no reason why it should not be attempted I did not introduce a sound into the uterus, and after wards felt that I had reason to congratulate myself tumor

urethra or otherwise If any had existed I must have She objected to this and said she wanted it out, and that she would rather die than let it remain

Three weeks ago I opened the abdomen, and was one slight incision which I made when dissecting found a smooth round cyst which fluctuated, and which had some solid matter about the walls introuced a Wells' trocar, which let out a dark bloody-like fluid that soon plugged the tube so that it would not flow. I had to enlarge the opening in the abdominal cavity in order to get the tumor out I examined the pedicle, and to my astonishment I found it continuous with the uterus It was evidently a cyst filled with blood At the upper part of what would naturally have been the uterus near the fundus the Fallopian tubes passed out my fingers along and picked up the ovaries, they were all right, and rising above from the fundus of the uterus was this tumor continuous with the uterus The uterus itself did not seem to be very much enlarged, still there was this continuous growth above I could see nothing to do but to remove it, and I did so, strangulating it to a certain extent with an elastic tube—a rubber tube first, and then ligating it, using Tait's ligature There was little bleeding from one of the vessels I found an opening in the lower portion of the cyst-I had opened the cyst by cutmation, which she objected to and no examination ting it across-I could readily have passed a probe She had menstruated from the time that I did not pass a probe and am now sorry that I did I closed it by the extra-peritoneal method last summer, when, upon the receipt of some sudden The patient has done pretty well although there has been some suppuration in the track of the wound, and seemingly a slight intra-mural hæmorrhage removing the dressing on the eighth day considerable bloody fluid escaped from the walls The lower portion of this tumor is undoubtedly uterine was plain to me that it was uterine tissue, yet it was entirely above the Fallopian tubes, which are intact

Here then, was a cyst that under ordinary circumstances we would suppose to be an hæmatometra, vet unique in its character The woman had menstruated regularly for twenty-five years She complained of some pain in the back, it is true, on the day before and the first day of her menstruation, but many women complain of pain during menstruation menstruated usually about three days, and has never had any irregularities in that direction She menstruated until five months ago, yet she certainly had a tumor five years before Hæmatometra are usually the result of an obstruction of the vagina or of the the feel to me as though there was a sort of sulcus cervical canal by some means, either the result of in-Evidently the uterus was closely invested flammatory action or the encroachment of a tumor This was not the case in this patient The uterus did not appear to me to had menstruated regularly without any trouble what-Where then did the blood come from? And ever That it was a if it was an hæmatometra, how did it happen that cyst I was satisfied, but told her there was something the whole cyst was above the Fallopian tubes? Here unusual about it, that it was not an ordinary ovarian was an opening that seemed to extend down into tumor However, she was an your to have it removed, the cavity of the uterus, but the whole expansion of the tumor almost was above the Fallopian tubes There is a thick wall I cut through to get rid of the that I did not I suggested to her an exploratory sue, above it had so changed that it no longer re-The lower portion at least was uterine tislaparotomy, and that if I found out I could not re- sembled uterine tissue, it was not only a thin wall move it there would probably be no great injury above, but there was nothing like uterine tissue

I don't know whether the probe would stances in connection with this very interesting case about it have gone into it from the cervix or not, but I felt is, as the doctor has well stated, his failure to intro that I was fortunate in not having made the attempt, duce through the opening a probe into the uterine for if I had passed a sound into the uterus and could cavity, and we can judge only, therefore, from the have entered the cavity I would almost certainly) have set up a disturbance that would have resulted) in destructive changes, a septic condition, and my patient would have been infinitely worse When we peritoneal indicates their most usual localities From have hæmatometra under ordinary circumstances the appearance of this tumor, from the fact that a we can certainly expect the body of the uterus to be portion of the tumor removed is apparently-and I distended, that certainly was not the case here, the say apparently, because no microscopic section of it body of the uterus is still within the abdomen, and has been made—a continuation of the uterine wall, -the Fallopian tubes and ovaries are still intact whole expansion has taken place in the upper segment of the uterus above these appendages, and has a large blood-vessel On the inner aspect, perhaps taken place while the woman was menstruating regu-This is something very unique in the history of hæmatometra This woman was 47 years of age Hæmatometra much more frequently occurs in young girls, although it has occurred in older women, women 45 and even 60 years of age, but it is very rare in women of that age

In answer to several questions Dr Prewitt said that so far as he knew the uterine cavity was left in-What was removed was simply expanded uterine tissue, where it was cut through it was clearly uterine tissue, but there were no indications of uterine tissue in the upper portion There was no septum between the cavity of the uterus and that The opening was plainly visible, and of the cyst seemed to pass down into the cavity of the uterus He did not close the opening The pedicle was treated by the extraperitoneal method There was not much hæmorrhage He did not know whether the canal leading from the cavity of the uterus up was perfectly developed and supplied with a lining He did not pass a sound, either per vaginam or from above into the pedicle, but the opening passed down in the direction of the uterine cavity In answer to a question by Dr was the question Lutz, as to what was made to constitute the pedicle? In addition, we have a tumor in a woman at the age Was it a portion of the uterine body that was con-

It seemed as if dilatation DR PREWITT replied had taken place in the upper segment of the uterus, and could not expand any larger without involving the lower portion of the uterus larger than normal was simply uterine wall, the upper portion was thin oped by Dr Martin, of Berlin I would like to hear cyst wall simply a continuation of the uterine tissue I cut it } off straight across and closed it up The only explanation that presents itself to my mind is that it the anatomical construction of the tissues involved was a biparte uterus, and one-half only of the cavity or of the uterus to cause him to prefer the extra had become distended with menstrual blood, the peritoneal method Every case of hysterectomy that other had gone on menstruating, and through some comes up ought to be viewed with that point in view, difficulty or other, a distension has taken place in and an endeavor should be made to determine which one side only, one side has become distended, and of the methods is preferable a unilateral hæmatometra has occurred We do at the outstart, that the intra-peritoneal method will have uterine fibroids sometimes breaking down in supersede the extra-peritoneal, just as the intra-perithe central portion, forming a cyst this was a tumor of that character

appearance of the tumor as to its nature. It is a well-known fact that the ordinary division of uterine fibroids into the sub-mucous, the intra-mural and sub The and that the contents of the tumor are coagulated blood, and that the thinner portion is nourished by to the right of where the incision was made to show the contents of the tumor is what I think is a bloodvessel It has all the characteristics of a blood-vessel, and is about the size of the radial artery. It occurs to me that this tumor was a intra-mural fibroid at first, and as it gradually grew, growing in the direction of least resistance, it became a subperitoneal tumor and fibroid, and from what we know of the natural history of fibromata of the uterus, they are liable to undergo almost any kind of degeneration, so that we have in many instances a combination of the fibroid with cystic degeneration of perhaps only a portion of the so-called fibro cystic tumor of the uterus The argument for assuming this to have been a tumor of the uterus, and not a double uterus, 15, 111 the first place, its peculiar position It is one of the rarest things to have a double uterus with one portion situated higher up than the other The ordinary configuration is that they are situated by the side As I understood the description, the broad ligaments, the Fallopian tubes, the ovarian tissue, in fact all those tissues in which ordinary cystic tumors, or in which neoplasmata develop, were perfectly normal Here we have a tumor covered by peritoneum, occur-Why the fluid did not go into the uterus ring above the uterine body, with no adhesions, no kind of connection with any of the adjacent tissues when we ordinarily expect to find fibromata, and tinuous with the upper portion of the cyst wall? more than that, at an age when we expect to find the changes which fibrous tumors undergo to take place Now the same struggle is going on so far as hysterectomy is concerned, the question of whether or not to The uterus was insert a stump of the uterus into the abdominal wall, The lower portion of the tumor or else treat it intra-peritoneally as especially devel-There was no distinct pedicle, it was Dr Prewitt's reasons for treating the pedicle in this case extra-peritoneally—whether he believes it was the safer method, or whether there was anything in I believe, as I stated I don't think toneal method of treating the pedicle of ovarian tu mors has superseded the implantation of the pedicle DR LUIZ One of the most unfortunate circum- into the wall of the abdomen About the time of

a degenerative process. I perfectly agree with those was some other growth than simply the result of the who say that it is impossible to determine the nature of this case from the microscopic appearance To all appearances it seems to me that the tumor is continuous with the uterine wall. I believe, then, that peculiar if it were a double uterus the tumor is a uterine fibroid which has undergone cystic degeneration the intra peritoneal treatment of the pedicle is preferable is a question which is as yet sub judice tendency in abdominal surgery is toward the performance of the ideal operation, to endeavor to treat the pedicles of extracted tumors intra peritoneally, the success of ovariotomy in that respect, and the gradual transition from one method to another will perhaps be followed in the treatment of hysterectomy You will remember that Spencer Wells has had more to do with diverting the treatment of ovarian tumors than any other operator His first method. and in fact that of the most operators was to treat the pedicle of ovarian tumors extra-peritoneally

THE PRESIDENT said that Dr Bond had expressed his idea as to the character of the tumor. He thought it was an intra-mural fibroid with a tendency to be-

-come sub-mucous

DR WALTER COLES I agree with Dr Lutz in all that he has said in regard to this tumor, but there is one other point which suggested itself to me from the imperfect examination which I made, and that is with regard to the character of the contents of the tumor If this were a double uterus, if the upper cavity were a portion of the uterine cavity, that would of course have the ordinary mucous lining of the uterus, and the accumulation of fluid in the tumor would be mixed Is said to have had "lock-jaw," but can swallow now with epithelium and partake of the character of I understood that the tumor con- her pulse 140 menstrual blood specimen does not agree with this, in other words it would be likely to occur, the blood would remain lent muscular contractions perfectly fluid, or in rather a treatly consistency, the tumor were examined this blood-vessel—and not only one, but there are a number of smaller ones also coming up from the wall Took beef tea and milk freely of this tumor, making their way into its disintegrating tissue, whether it be coagulated blood or a portion restless all night in spite of opiates of the tumor In these fibroids it seems to extend as the tumor grows, the wall seems to grow thinner, disintegration takes place in the interior of the tumor going on toward the surface, and as we approach the surface the wall becomes more and more highly ormaking their way toward the interior of this tumor How soft it was at the time it was removed, before it ened I am unable to say The whole appearance of the with no effect

the menopause fibrous tumors are liable to undergo contents of the tumor would lead one to believe it coagulation of menstrual blood in a double uterus or in one side of a double uterus Then, as Dr Lutz has already stated, the situation of the tumor is very

> (Subsequent microscopical examination of the Whether or not the extra- or tumor showed that it was a degenerating fibroid ?

MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA

Stated Meeting, November 16, 1887 THE PRESIDENT, JOS TABER JOHNSON, M D, IN THE CHAIR

DR P. I MURPHY reported a case of PUERPERAL TETANUS

Mrs Annie B, white, at 24 years, nativity Germany, was admitted to Columbia Hospital on the evening of August o, 1886

Her husband stated that she was delivered instrumentally of her first child three weeks ago by Drs Sellhausen and Sowers She did well for the first nine days On the ninth and tenth days she sat up and on the latter day began biting her tongue, and "spasms" soon followed The spasms had been occurring frequently since, and accompanied by high temperature and profuse perspiration The day before admission she "broke out" all over her body

When admitted her temperature was 103 6°, and The eruption was thought to be due tained menstrual blood, but an examination of the to excessive heat Bowels very constipated Gave calomel grs v, triturated with sugar Patient was shows that there is a great deal of coagulated blood restless and delirious all night, having frequent spasthat has undergone partial disorganization, that it is modic attacks with episthotonos Temperature 104° in layers, that it is organized in layers, that it is ad- and pulse 140 all night. Toward morning, under herent to the wall of the cyst. Now if this were a the influence of hypodermic injections of morphia, double uterus, I don't think anything of that kind she slept some, but would awake suddenly with vio-

August 10, 5 A M — Temp 104 2, pulse 125 She something like molasses, at least it would be mixed continued about the same all day Enemata were up with more or less epithelial cells, which would given several times, but were immediately ejected render the diagnosis certain if any of the contents of Skin bathed in profuse perspiration all day, notwith-Then the presence of standing frequent spongings Had frequent attacks of episthotonos, and was continually dribbling urine

Aug 10, 7 P M — Temp 105 6°, pulse 132

Aug 11, 6 AM — Temp 1048°, pulse 124 Emplast canthar applied to back of neck and an ice Emcap kept on head all day Took nourishment readily but was delirious at times At 2 15 PM temperature was 1058°, pulse 142, at 3 PM temperature gamzed until at last we meet with blood-vessels It was 106°, pulse 142, at 6 PM temperature dropped seems in this specimen as if these blood-vessels are to 105 2°, and pulse was full and strong Was given 15 grains antipyrin, and heart's action rapidly weak-Ordered tinct digitalis to drops every 3 was subjected to the action of the alcohol of course hours Enemata again tried and comp cath pills,

At or M, pulse being stronger and temperature remaining at 105°, she was given 15 grains more of antipyrin

Aug 12, 12 15 A M — Temp still 105°, and patient

delirious, gave third dose of antipyrin

7 AM—Has not slept at all since the 10th inst

Gave cath pills again

9 A M — Temp 105 2°, pulse 140, and feeble Antipyrin having no perceptible effect except to weaken heart's action, was discontinued, and dose of digitalis Patient scems brighter and is more quiet Another blister to back of neck

3 PM—Has slept two hours and bowels have moved three times, but her condition is much worse Pulse at wrist almost imperceptible

5 PM —Temperature suddenly ran up to 107°,

and pulse too feeble to be counted

Patient is unconscious 7 PM — Temp 108 4° and her breathing stertorous Usual restorative measures were employed, but patient died quietly from butter in the market? at 8 30 P M

The convulsions gradually lessened in frequency smell and intensity from the time of her admission until the evening of the 11th inst None were noticed

after that

Dr Sellhausen called at the hospital August 19th and stated that he attended the woman during her confinement, and that she was delivered by forceps The perineum was ruptured, sutured, and healed by She was seized with convulsions on first intention the thirteenth day after delivery Her extremities became rigid and her jaws locked He gave her one-fourth grain morphia and 20 grs chloral hydrate every two hours

I have contented myself with the simple recital of this important case, the first I have seen after sixteen years experience in a lying-in asylum To those interested in the subject, a perusal of Dr Garrigues' article in the American Journal of Obstetrics, Vol xv, October, 1882, will not be without profit, also the case reported by Dr Boarman, of this city, and read before this Society May 18, 1887, with the dis-

cussion following

Was there hæmorrhage or lacer-DR BOARMAN ation of the cervix? What was her temperament?

Was she subject to spasms or hysteria?

DR MURPHY only knew what Dr Sellhausen had When she was brought to the hospital she was suffering from stupor alternating with delirium There were jerkings about the face and neck, the opisthotonos would come on and her head would approach her heels, and finally she would give a bolt and almost fall out of bed She was plethoric

Tetanus occurring after labor at Dr Boarman full term is very rare, but that occurring after abor-Callabin did not have a case tion is more common in 46,089 labors In 1849 P Anbinaus reported three cases 'Merriam collected 10,190 "cases of difficult labor with 106 deaths, and only one died of tetanus" Curling thinks it is more likely to follow lesions of the cerebro-spinal than the sympathetic in the cases he examined In only two were the of Chronic Empyema 4 Recurrence of Malignant labors perfect v normal

Dr Garnett Puerperal tetanus can hardly be caused by lacerations of the cervix, but must be due to some constitutional peculiarity. In forty years of practice he has never seen a case after a labor at full He has seen one follow abortion

DR THOMAS TAYLOR then presented some

PACTS IN RELATION TO EMACIATION

(See p 265)

DR Busey asked Dr Taylor if there were any distinct characteristics by which ordinary people could distinguish oleomargarine from butter?

Dr Taylor It is very easily distinguished The crystals of oleomargarine may be detected with the naked eye by placing a small portion between two slips of glass and holding it up to the light, the translucent particles being crystals of fat, butter under like conditions presents an even cloud

Can anyone tell oleomargarine Dr Friedrich

It can be told by the taste and Dr Taylor Oleomargarine has no odor and a lack of taste, while butter has a pleasant odor and taste

The subject of this paper, viz Dr Schaeffer the discrimination between different kinds of fat, presents two aspects one in a biological light, as bearing on the possibility of distinguishing between different species of mammals by a supposed distinctive structure of the tissues in each, the other in a sanitary light, as it bears on the possibility of detecting fraudulert adulterations of butter as an article of food

While I have not examined so extensive a list of fats as those mentioned in the paper, I have arrived at the conclusion that the microscope is not a safe guide, with our present knowledge, when we endeavor to distinguish animal fats by their crystalline structure alone The gentleman's statement, that all butter showing small crystals visible to the eye on pressing some of the sample between two glass strips must be rejected as spurious, is an erroneous one, as crystals of salt are frequently found in good "firkin" or "tub" butter Is it not also illogical to expect to find a similarity between the solid fat of the sheep, hog, etc , and the only product of the cow's lacteal gland—a gland hypertrophied by domestication and artificial selection? The use of solid fats as a remedy in tuberculosis is contraindicated by the proverbial distaste of patients for such food

FRENCH SURGICAL CONGRESS —The third session of the French Surgical Congress will be held in Paris, from March 12th to the 17th, in the large amphitheatre of the Administration de l'Assistance Pub lique, 3 Avenue Victoria Professor Verneuil will The following questions are down for dis-I The Treatment of Gunshot Wounds of preside 2 The Value of Radical Treatment of cussion Herma as regards Permanent Cure 3 Treatment Growths after Operation its Causes and Prevention

FOREIGN CORRESPONDENCE

LETTER FROM PARIS

(FROM OUR OWN CORRESPONDENT)

Antiseptic Treatment of Boils—Enlargement of the Bi easts in Tuberculous Subjects—Angina Pectoris of Syphilitic Origin—Strophanthus

Professor Verneuil, well known as the champion of conservative surgery, lately made a communication to the Academy of Medicine on the antiseptic treatment of boils and carbuncles The author observed that the treatment of carbuncle has greatly varied within the last forty years, but has gradually become less surgical, without on this account being After having tried in common with other surgeons the old method of free incisions and punctures the result of which was anything but encouraging, Professor Verneuil resorted to the thermocautery, followed by carbolic acid dressings But as he now obtains the same results with the carbolic acid spray alone composed of a 2 per cent solution which he employs for two hours daily in two, three, or four sittings at the convenience of the patients. and with a powerful instrument. This treatment is adapted to all the forms, to all the phases, and to all the stages of the disease At the outset the carbuncle has the character of being aborted Later on, disease progresses, when perforation and mortification of the dermis have commenced and when suppuration and the elimination of the cores of the abscess are proceeding, this treatment limits the sphacelus, favors the separation of the sloughs, carries off mechanically the pus, disinfects and deterges the wound, and lowers the body temperature which is accompanied by the cessation of the general symptoms When the subject is not cachectic, the granular memloss of substance and the suppleness of the surrounding integuments would permit Dr Perrin, of Valde Grâce, stated that he employed another method with success, which consists in prolonged baths in hot water, and the application of a cold starch poultice during the night A discussion followed in which several members took part Dr Le Roy de Méricourt, an old navy surgeon, did not believe in the microbian nature of boils and carbuncles As to the treatment, he states, that if it be true that the carbolic acid acts to practice an injection into the substance of the carbuncle, as is done with the tincture of iodine in malig Should the patients feel relieved and although there was a manifest tendency towards the oughly that they seldom or never return To the objections that were made against

no right to criticise it Moreover, although he has now adopted this method as a general rule, he did not wish it to be inferred that this was done to the exclusion of operative measures in suitable cases but that he employs the thermo-cautery in preference to

Tuberculous subjects sometimes present enlargement of the breasts, which, in certain cases, assume an inflammatory character Leudet, of Rouen, brought to the notice of the Congress of Grenoble, in 1885, several cases belonging to this first category In his thesis for the doctorate, entitled "Contribution to the Study of the Hypertrophy of the Mammary Gland in Pulmonary Tuberculosis," Dr V Allot states that, from his personal observations, he found that the development of the breasts takes place in an indolent and progressive manner mary glands never attain a very great size, but the emaciation of the body contrasts with this development of the breasts The skin presents its normal When a breast thus hypertrophied is excharacter amined with the hand, one feels the sensation of a hard mass, including the whole gland, without any adhesions to the skin or to the deep parts, and no puffiness of the subcutaneous cellular tissue is ob-This affection never terminates by suppuration, the regression of the breasts is never complete, and the nodosities in them always persist anatomical point of view, remarks the author, the should this result not have been attained, and the malady is constituted by an abnormal development of the fibrous tissue forming around the ducts and the lobules of the gland thick zones, diffused, and which tend to atrophy the glandular elements absence of abscesses of tubercles, of glandular enlargements remove the idea of mammary tuberculosis The author concludes that this hypertrohpy of the breasts is in reality caused by a chronic interstitial

In the Annales de Dermatologie et de Syphiligraphie, brane once deterged has generally a good aspect, and Dr Hallopeau contributes an article on angina peccicatrization proceeds as quickly as the extent of the toris of syphilitic origin Syphilis, according to the author, may give rise in its secondary and tertiary stages, to attacks of angina pectoris, and these attacks may present the classical type of this affection At times the attacks are complicated with other troubles of innervation connected with a reflex excitation of the vaso-constrictor or of the vaso-dilator nerves, thus provoking abnormal sensations of cold or heat in one half of the body with shivering and hyperhidrosis, and may give use to paresis by ischæmia of the motor centres These fits are attached to as an antiseptic, he thinks that it would be preferable the development of specific neoplasms on the course of the cardiac plexus or in its immediate neighborhood, and they may be modified in their character under the evolution of the lesions, of their arrangethe disease amends by the carbolic acid spray, he ment in the points primarily affected and of their believes it to be due to the cold water and not to the extension to other branches of the sympathetic nerve acid Several other members then gave the result of These attacks the author remarked, may be cured in their experience, all adhering more or less to the old a few days under the influence of the mercurial medmethod, that is to the medical and surgical treatment, lication or of the iodide of potassium, and so thor-

At a recent meeting of the Sociéte de Thérapeuthe use of the carbolic acid spray, Professor Verneuil tique, a discussion took place on the therapeutic acretorted that those who had not tried his method had tion of strophanthus According to the experience of Dr Constantin Paul and other members of the Society, strophanthus is less a cardiac medicament than a feeble diuretic, but of persistent effect

A B

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FROM OUR OWN CORPESPONDINT)

New York County Medical Association—Dr Alonzo Clark-The Medical Profession as a Whole, and Physicians as Individual Members —- The Care of the Pauper Insane

The last meeting of the New York County Medical Association was occupied by the addresses of the retiring and incoming Presidents, both of which were able and interesting Dr John Shrady, whose term of office then came to a close, reviewed the work of the Association, and expressed the conviction that all the members could truthfully say that the year had added somewhat to their mental stock and directed their thoughts into newer channels Having referred to the past year as being, in a general way, not very notable for brilliant discovery, although much good work had been done in the line of corroboration of that which is valuable, he characterized the Ninth International Medical Congress as a success, and averred that there were but few leaders capable of directing intelligent thinkers by the thousand, maintaining that no one man or body of men can lay claim to indispensability that the phantasm of a possible medical centre for so large a territory as the United States had been dispelled forever, and pointed out that there had been many surprises, chiefly in the direction of the newer men, who snatched at the prizes abandoned by the older favorites

Dr Shrady attributed the success of the Associa tion to the absence of medical politics, the encouragement given to latent talent, the elimination of dogmatism, the suppression of offensive individualism, and the care taken to make the contributions as exhaustive as possible The acrimony of debate, he said, had gone out with the bickerings of the politician and the vaporings of the pseudo-reformer

He then alluded, in feeling terms, to the death of Dr Alonzo Clark, one of the greatest of New York teachers, who, he claimed, was just to all, supercil-10us to none, safe almost to plodding, and free from dogmatism, and who, as an honest toiler, with no meretricious aids, always gave what was best of his Avowing that loval nature to science and to truth there was no courtesy in science, he disclaimed all hero-worship, and earned, along with the best of his ideas—who, from an innate judiciousness, which they colleagues, the laurels of the ideal physician

graceful reference to the verdict of the Scottish clans follow the dictates of common sense, and they there contending for precedence at a feast MacGregor, there is the head of the table "

ful and carefully prepared essay devoted to reflect the moral support and encouragement they efford, The address of the President-elect was a thought-

tions concerning the medical profession as a whole and physicians as individual members thereof, and the following extracts may serve to afford some idea of its character The exact status which the profession holds in the complicated arrangement of hu man society is in some respects peculiar. The interests with which it deals are obviously second to none in importance The most natural instinct of man is to preserve his health, and much of his time and attention, in one way or another, is expended in serving this object, and, notwithstanding his depraved inclinations and the tendency to excesses, it lies as a substratum in his moral nature, even though it may be dormant

Although our relations with the community are close, and affect those matters which lead all others in importance, so far as this life is concerned, yet it is in a single line of duty, our points of contact with the world at large are few We are to a certain extent a segregated class, and virtually constitute a caste, while most of the other higher pursuits in life bring their members more or less into the range of public notice, and the subjects which they agitate mingle to a considerable extent with the topics of public A certain portion of the community, as interest individuals, certainly do manifest a desire to know something of medicine, and those with this inclination, whose temperaments are by nature tinctured with the element of vanity, occasionally pique themselves upon their scientific acquisitions With a person of this description for the physician to acquit himself judiciously, serving the best interests of the patient and at the same time having the difficulties presented by a garrulous subject to deal with, is often a problem not easy of solution

With many the vague and popular notions handed down from antiquity still hold their sway, with their admixture of mystery, superstition and deceit The forms become somewhat modified under the progress of education and advance generally, but they still retain the root which belonged to their original type It is only a change of dress suited to the fashion of Higher in the scale of enlightenment the day comes he who does endeavor to mould his actions and discover his best interests by the judicious exercise of the light that is in him, but it is too fre quently the case that one whose experience and Judgment would enable him to successfully conduct a difficult mercantile project, or another who could apply the highest order of reasoning to a profound principle of law, cannot hold out against the assaults of promise, plausibility and pretence in seeking There are others, again-and medical resources they do not belong to any particular station in life, nor do they always have the advantages of education or those associations which tend to enlarge the are able to exercise in all directions, in medicine as Dr Shrady introduced his successor in office by a in other matters, think that the wisest course is to "Where sits fore apply to those who, by education, training and experience are supposed to be qualified to attend to their medical needs Were it not for these, who by

do much to sustain him, the path of the physician

would indeed be gloomy

That the avenues to knowledge are open for all goes without saying, but a successful search for the choicest fruits is only accomplished upon certain It involves an intensity of interest and fixedness of purpose which falls little short of a devotion, and it calls for an amount of industry and self-denial such as only few can practice He who cannot furnish these qualifications will reap as his harvest little but the results of a blasted or spurious There is a vast difference between a germination knowledge that is ample, well ordered, and in a condition ready to be applied with effect to a definite, useful purpose, and that which is the offspring of a few smattering, disconnected notions, of fancy, and of false intuition

The arduous and responsible duties of a medical man in active practice call for some diversion from their wearing effects There must be some resource by which the mind can occasionally be lifted from the weight which forces it in the embrace of an anxious contemplation, but it does not necessarily follow that the relief is to be sought for solely in light and frivolous entertainment. There are other channels which, in part at least, afford a means of obsome study of a scientific or other character will often fulfil the demands of nature in this need not claim that the practice of medicine is excepevercised or strained to a higher degree that would occur in the application of the mental faculties over a considerable time—provided the capacity was proportioned to the magnitude of the daily effort required, and the application not begun at too early an age-would probably be small, if it was purely of an intellectual character, as is evidenced by the longevity and retention of the mental powers of those who devote their attention to philosophy, metaphysics, and the sciences generally It would hardly be appropriate to this occasion to which exemplify the physician's anxieties, we know well what they are, and we all feel their weight

It is perhaps not out of place to say a word condisease, this has a partial application We might doned have pursuits and sympathies in common

worthy physician, you have the stamp of nobility, and the hand of fellowship is extended to you, while your efforts here will tend to round out and complete the professional character to its proper symmetrical proportions

At a recent meeting of the Academy of Medicine Dr Samuel Sexton introduced a resolution (which was unanimously adopted), endorsing the bill prepared by the State Charities Aid Association, in regard to the care of the pauper insane in State hospitals, and recommending its enactment by the Leg-

In seconding the resolution, Dr C R Agnew said that for thirty years he had been interested, with others, in the amelioration of the condition of the pauper insane in the State of New York, and that the first result of the agitation of this subject had been the establishment, by the State, of the admirable Willard Asylum Later those at Binghamton and Poughkeepsie had been started This opening of these institutions had withdrawn a considerable portion of the pauper insane from the county poorhouses, but now an effort was being made to estab-

The chief reasons alleged for this movement were the saving, to a considerable extent, of the cost of taining the required relief, and even the pursuit of transportation of insane patients, and because it was claimed that the cost of maintenance in the State I do | hospitals was unnecessarily great One of the counties declared its willingness to undertake the care of tional in presenting more troubles and vexations its insane at a cost not to exceed 97 cents per head than is experienced in some other pursuits, but it per week, and another for \$1 19 At the Willard will, I think, be conceded that there is no other in Asylum, where the number of inmates is now nearly which the emotional faculties are more frequently two thousand, the expenses could not be reduced The below \$2 25 per head per week, but this included amount of permanent damage to the nervous system the best scientific care by expert physicians and specially trained nurses, the amusement and intellectual training of the patients, and their employment in the work-shop and on the farm connected with the institution The counties, however, did not propose to give the same character of care to their pauper insane as that given by the State hospitals, as this was impossible of attainment for any county at a weekly cost per capita of \$1 50, the charge to which the counties were subject by the provisions of the State Charities Aid Association bill The expense enter into any extended relation of the situations of new or improved county buildings, and of a larger number and higher grade of attendants-to say nothing of maintenance and medical treatment—nould They vary, of course, with the exigencies of the case, impose a heavier burden on the tax payer of the but it may be safely asserted that there is no single county than the additional increase of his State tax professional act performed of which they constitute required to perfect the system already established by the State

It was a fact, also-Dr Agnew continued-that cerning the claims of medical societies upon its some of the counties had tried the experiment of members, and in view of what has been alluded to having their own insane asylums, and unsuccessfully in the necessity of the physician to have some diver- Thus, Rockland county had erected one at an exsion of his attention from the daily conflict with penditure of \$20,000, and it had now been aban-If the pauper insane were cared for by the say that here is the home circle of our professional counties they would be under the charge of the subrotherhood, here you can meet with those who pervisors and superintendents of the poor, and these Whether men, besides knowing nothing of the proper care of you are fortunate enough to be distinguished or not, the insane, were altogether too close to the tax payif you bring those attributes which belong to the ers This class of cases could, in fact, be properly

taken care of only in an institution where there was basis of medication, and often of itself sufficient to a board of managers which was directly responsible cure as well as prevent disease, the regulation of the to the State, and where everything was done in the full blaze of public scrutiny, and in the State hos- light, heat, clothing, rest, exercise, mental and moral pitals of New York he believed that the most en- conditions, etc, according to circumstances, being lightened modern treatment of the insane was car- necessary also in unison with this system of counter ried out in as thorough a manner as was at present action or anti-pathy, as right living is essential for the attainable

MEDICAL SCIENCE

Dear Sir —If physicians would have the following or something similar published in the newspapers and popular press everywhere, they would greatly help to enlighten the people and diminish quackery of every Lind

There appears to be a great misapprehension existing respecting the character and scope of medical science It does not consist of a single pathy or ism, or of many shreds of pathics and isms, but of all knowledge, all truth pertaining to life, health, disease, deformity, injury or abnormity of every kind, and their treatment, in their most extended relations Hence, pathies and isms do not represent and have no place therein, while the real knowledge and truth included in every phase of thought, pathy, ism, or otherwise, belong to and are comprised in the general science of medicine, which is thus of universal compass The application of the term "allopathy" to legitimate medicine is a misnomer and savors of the case under treatment. But scientific physicians quackery, while that of "allopathist" applied to the regular physician, which he repudiates, is libellous and actionable as expressive of an untruth, a stigma The only pathy at all applicable to and reproach the science of medicine is anti-pathy, or antagonism to all disease, but even this is too limited and misleading as to its nature and extent, as it only includes the mere prevention and treatment of disease, and omits all the collateral branches of biological, and many of surgical science This law of antagonism and principle of counter action applies to curative medicine the same as to everything else, as it is uniform and universal, and does not admit of any exceptions, much less such a sophistical dogma as "similia similibus curantur," or like cures like of The dictum that to cure one disease homœopathy it is necessary to produce another of the same kind or similar to the one existing, and then that this like stronger and conquering disease gets well of itself, which it must do if so as asserted, is sheer assump-The victim of one disease does tion and nonsense not want, and should not be afflicted with another disease of any kind whatsoever, whether the same (isopathic), similar (homeopathic), or dissimilar (allopathic), but wants to get well in the most direct way as easily and speedily as possible, which it is the object of scientific medicine and physicians to accomplish by all the most appropriate physical, mental and moral means which can be favorably brought to bear upon the case by this law of antagonism with counteracting and antipathic agencies, of symptoms as given in the article referred to which mere drugs of themselves are often of minor importance, though generally useful and frequently indispensable. Yet, in general, alimentation is the within the first ten days or, dropping to 102°-103°,

diet, with the other hygienic measures of pure air, restoration as well as preservation of health fore, for the removal as well as prevention of disease, with abnormities of all kinds, this law of antagonism prevails, as anti-pathy inculcates and anti-pathists adopt such measures as are counteractive to disease as well as every other derangement, whether of a physical, mental or moral nature, that will restore the equilibrium of health, consisting of anything and everything material, dynamical or spiritual, appro priate therefor, the precise character and combina tion of which depend upon the peculiarities of the

With regard to drugs alone, they are administered in every form, proportion, variety and way crude or refined, single or miltiple, separate or combined, small or large doses, each have their special appli cation and are employed as necessary, the judgment of the physician deciding the particular kind, form, quantity, simple or complex nature and condition, whether organic or inorganic, mineral, vegetal or animal, solid, liquid or gaseous, and otherwise, singly or combined, specifically adapted antipathically to discard all exclusive dogmas, pathies and isms, as being too narrow and sometimes fallacious, though they counteract disease as well as abnormity of all other kinds by this sound, common-sense law of an tagonism or anti-pathy, which may not always save life, just as carbonic acid and water against fire may not always save property, yet they are specific there for nevertheless, assured that it is the only rational method and true system to cure as well as prevent disease, that the science of medicine is one and uni versal in its range and application, while ever pro gressive, new discoveries, new truths, new remedies and other instrumentalities being constantly added in its onward course towards perfection, despite all dogmas, pathies or isms Thus, in the estimation of all true physicians,

"No pent-up dogma restricts our powers, The boundless universe is ours'

GEO J ZIEGLER, M D

Philadelphia, Pa

SYMPTOMATOLOGY OF TYPHOID FEVER

Dear Su -In The Journal of January 28 your correspondent in Cincinnati describes the typhoid fever prevailing in that section, during the last sum mer, as differing in symptomatology from the fever The general run of the described in text-books disease as it occurred here during the spring, sum mer and autumn of 1887 presented about the same remain at this for one or two weeks Headache and backache were the most prominent symptoms complained of by the patients, many tracing the latter directly to some exertion, and asking for relief from a "lame back" These symptoms were always ac autumn, bronchitis was a common complication, ammonium salicylate hypostatic congestion of the lungs, however, occurred in only the most severe cases inal symptoms we had pain extending from the right at 7 P M moid flexure, with, in some cases, diffuse tenderness on pressure throughout the entire abdomen Con-Intestinal hæmorpanites but seldom very marked rhages were few, but severe be definitely established Hæmorrhages of the nose were not often observed

As to treatment of the cases, quinine, natr salicyl, and antipyrin did not act satisfactorily in my hands, for, if given in doses large enough to depress the temperature, it would remain so only for a short time, returning to its original height in the course of ten or twelve hours, notwithstanding the constant administration of the antipyretic

The remedy par excellence proved to be the ammonium salicyl, to which my attention was attracted in typhoid and septic fevers, in the Transactions of the State Medical Society of Wisconsin, by Dr J R It invariably reduced the Barnett, of Neenah, Wis temperature to 99°-100°, keeping it there during the entire course of the disease, diminishing the rate and force of the pulse and causing, in a majority of cases, profuse diaphoresis When given early, within the first few days of manifestation of the disease, it In cases not seen until the end of the first or about the barn beginning of the second week, such drugs as were above normal after the first decline indicated were added to the am salicyl mixture ten or twelve days at a time to counteract the dein the few cases that were accompanied by diarrhoea Bromide of potassium was always used in conjunction to combat the severe headache, and when the patients complained of pain and weight in the back part of the head and neck the fluid extract of ergot The turpentine and opium mixture advised by Dr N S Davis, without the opium, was given in all cases presenting a dry state of the tongue and sordes on the teeth

I am unable to give an explanation of the action at the bedside, that it has proved itself to be a very efficient remedy in the treatment of this diseaseshall we call it typhoid fever? Some undoubted

A remarkable circumstance I omitted to mention is that the skin was always hot and dry, except in the few cases of genuine fever above referred to, while our text-books claim it to be always moist and clam I did not keep an exact memorandum of any companied by a general feeling of lassitude During | cases, but a few are well enough remembered to cite prevalence of the cold weather, both in spring and as giving an illustration of the prompt action of the

Fr G, æt 21, German, laborer Began to admin-For abdom-lister medicines to him on the ninth day of the fever Had a few days previous to this given diiliac fossa, along the course of the colon, to the sig- rections about opening the bowels, and general instructions regarding the treatment, to his father, a German minister, who is a very devout disciple of stipation was the rule, diarrhoea the exception, tym-electro-homoeopathy At the time mentioned the young man presented a woe-begone appearance, As no post-mortems being well plastered with white, red and green elecwere held, ulceration of Peyer's patches could not tricity à l'Electro homeopathie to relieve him of a distracting headache His face was flushed, skin hot and dry, tongue covered with white fur, breathing accelerated, pulse hard and full, beating 120 per minute, temperature 105 2° There was considerable tenderness along the course of the colon, bowels had been moved with mag sulph, the stools were watery, containing flakes of a yellow color I placed him at once on a mixture containing am salicyl gr viii, tr aconiti gtt i, pot brom gr vi, ext ergot fld gtt in to each dose, with directions to administer the medicine every two hours during the night Next by reading an account of the usefulness of this salt | day at 10 AM his temperature was 97 8°, his pulse soft and full, 96 per minute, he was perspiring freely and entirely free from headache His bowels had not moved, and I ordered one tablespoonful of castor-oil to be given and repeated in three hours in case his bowels did not act. The dose of the mixture given above was reduced one-half and, as the tongue evinced a tendency to become dry, turpentine in 8-drop doses every four hours was prescribed would generally break up an attack, the patient being | At my next visit, two days later, the patient was out able to be up and about the house in two or three of bed, and one week after this he did the chores His temperature never rose to

The other case occurred in February, 1887, before Tincture of digitalis, when the pulse was weak, was I had any knowledge of the value of the am salicyfrequently given in 5-drop doses every two hours for late as an agent in the treatment of these fevers This was a case of more than ordinary severity, one pressing action of the salicylate Tr opin was added the books assign as usually terminating fatally, for the temperature ranged between 103 5° in the morn-

ing to 105 5° in the evening for about three weeks C L, æt 24, nat Swede The entire family, consisting of eight persons, went through a course of the fever This patient was the last one to be attacked and proved the most severe The abdominal and head symptoms were about the same as those described in the previous case, in the beginning of the fever, the stools and urine passing involuntarily about the third week, while an active delinium that set in during the of this drug, but can say from experience gathered latter part of the first week continued night and day for three weeks The pulse was 120 during the day, running up as high as 140 during the night, while the temperature ranged between 103 5° and 105 5° for the cases of typhoid fever occurred during the time, but same length of time Quinine, salicyl of soda, antithe general appearance of the disease was as de-pyrin (in horse doses, as the consulting surgeon expressed it), accompanied by moderate and cold effusions, were each successively used, without ever reducing the temperature for more than 1° or 1 5° for longer than one to two hours Every morning I would drive out expecting to find my patient dead, only to hear that he had passed a very bad night Often I watched by his bedside all night not expecting him to live until morning

I saw Dr Barnett's paper after this patient had been under my care about three weeks, and procured some am salicylate, which I began to administer in 15-grain doses every six hours, but not being satisfied with its action, the mode of administration was changed to 8 grains every two hours Within eight hours the temperature began to fall, and although there was a temporary rise every evening, it reached normal at the end of the sixth day He made a slow and tedious recovery, and it was fully eight months before he returned to work During the course of the disease such remedies were administered at different times as the symptoms called for I found the various formulæ of my honored teacher, Dr N S Davis, as given in his lectures, most excellent to combat the delirium, later on the involuntary discharges these men do not hesitate to state publicly that from the rectum and bladder and the dried and furred state of the tongue

As your correspondent referred to at the beginning of this article, I also ask the question What is the nature of this affection? He gives as a possible solution a contaminated water-supply, the streets having been torn up, and the water being below its usual level in the river, but here none of these causes can be found, for the fever occurred alike in city and country, visiting the settler in his log cabin in the midst of the pine forest, the farmer in the well cleared country, and the city dweller in the centre as well as in the outskirts of the city The supply of drinkingwater was derived at different places from the clear springs, running brooks, wells and the city hydrants, while there seemed to be no special influence at work, either as to the duration or severity of the disease The rate of mortality at one time was quite large, rather more than the average percentage

D SAUERHERING, M D

Wausau, Wis, Feb 14, 1888

UNETHICAL USE OF PHYSICIANS' NAMES

Dear Sir —I have a little grievance to bring to your attention, and to that of the profession at large

In October last, there came to Charleston, Messrs Bernhardt and Matthez, "scientific opticians" from Immediately upon their arrival here they visited all of the prominent physicians, explained that they were opticians—not oculists, nor did they interfere in any way with the oculist-and asked these physicians to give them their names in recommendation of their (the opticians') work, in order that they might publish them Strange as it may seem, many of our most prominent physicians readily signed their names without knowing anything more of them than that they had good names of other men

Before they could publish these names I succeeded in having a special meeting of the County Medical Society called, and stated my case I said "I am

a specialist in diseases of the eye and ear, a member of the American Medical Association and of your Society, I observe the rules and abide by the Code of Ethics, yet you have given your names in recom mendation to men entirely unknown to you, who are not physicians, who say they do not interfere in any way with the oculist, but whose actions and further admissions belie this, for they test the eyes and pre scribe glasses for all who may come The prescrib ing of glasses is known by many well-informed physicians to be a large factor in the practice of the oculist and one that requires the most careful atten tion, and yet these men are bold enough to say they do not interfere with the practice of the oculist I consider that you have done me an injustice, and that when your names appear in the daily press recommending these men that my practice will be materially damaged, and my patients inclined to lose confidence in my ability "

Upon this statement the members of the Society present unanimously consented to withdraw their names, and so they were not used Knapp, Agnew and Chisolm, not to speak of the lesser lights, know but little about prescribing glasses, and they tell persons who may have been treated by any of the above mentioned, that their eyes have been murdered, etc Their charges for glasses are most exorbitant, ranging as high as \$50 and perhaps more One poor woman who consulted them after wards came to me Upon examination it was found that she had cataract in both eyes, and their com bined vision was control of course a glass would be practically useless. They advised glasses that would make her see and would cost fifty dollars, but if she wished her eyes put out to have them operated upon

Now, my cause of complaint is as follows course I cannot prevent their selling glasses, nor can I regulate their charges, but I do think it unkind and not strictly according to the Code of Ethics for physicians standing high in the profession, members of the American Medical Association, and Professors in regular colleges, to give their names for publica tion, thereby misleading the public and injuring the practice of professional brothers who are trying con scientiously to stem the rapid current I enclose one of their advertisements which appears several times a week in each of the daily papers names therein are sufficient to bring these people Very truly yours, practice

CHARLES W KOLLOCK, M D Charleston, S. C., Feb. 16, 1888

CONGENITAL PHIMOSIS

Dear Sin -I find in The Journal of November 19, 1887, an article on "Congenital Phimosis," read before the Section on Diseases of Children at the thirty-eighth annual meeting of the Association, by Professor Wm S Stewart, of Philadelphia, in which he clearly sets forth the reflex manifestations result ing from this abnormal condition, as every careful surgeon of experience has met them, and as have as "I am often been overlooked by the careless diagnostician,

of over-confident and anxious parents To overcome the difficulty he advocates dilatation instead be gladly received by the profession, and with delight by parents having children so afflicted

But how a four bladed instrument, of sufficient strength to accomplish the dilatation, can be thrust into an opening not larger than a pin's head, and dilate the parts without pain or blood, appears to me to be beyond the comprehension of the average surgeon, and an opening no larger than stated is Dr Stewart, however, very prudently often found cautions in using his instrument that it requires care not to get the blades into the urethral meatus, and also not to dilate too rapidly lest we tear the tissues and cause pain and bleeding Consequently it will be necessary to dilate not only once or twice, but often, unless the tissues are torn, to overcome the difficulty, thus rendering the operation many times more painful and tedious than circumcision properly I admit that circumcision as generally performed, is bloody, painful and tedious But when properly performed it is very simple, comparatively bloodless, and attended with very little pain the ordinary method of operating it is necessary to stitch the mucous membrane to the skin after the removal of the redundant prepuce But when properly performed the necessity for this part of the operation is avoided. All that is necessary, is to draw the prepuce well forward and clasp it pretty firmly between the blades of an ordinary dressing forceps in front of the glands, then cut away all in front of the forceps either with scalpel or scissors, preferably the latter, remove the forceps and let the skin retract, then clip out of the mucous membrane over the glands a V-shaped piece up as far as the Apply antiseptic dressing and leave retracted skin the case to nature, and it will give no further trouble, unless there be some inflammatory complication But we are in no more danger from this complication than we are by dilatation, and from any view of the case circumcision is certainly preferable

JAMES LAMB, M D

Aurora, Ind

REMOVAL OF HYPERTROPHIED PHARYN-GEAL TONSIL

Dear Sir -I have just seen an article in the JOURNAL of January 28, by Dr H Gradle, of Chicago, on "Hypertrophy of the Pharyngeal Tonsil," in which he describes various instruments for the removal of such growths He makes no mention, however, nor do I see it mentioned in any work that I have consulted, of a simple device that has served me in several instances with much efficiency of one of Sims' sharp uterine curettes, the stem havpalate retractor, which I also devised (See N Y

with the result of failure in treatment, leaving the posterior pharyngeal wall can be curetted away, or any little patient to suffer and disappoint the expectations small growth removed from the posterior nasal or naso pharyngeal space with ease, Jarvis' curved snare being used for the larger growths The uvula retractor of circumcision Any means by which the abnormal referred to above has proved of especial efficiency in condition can be removed successfully without a all such cases and particularly when very large postebloody operation, and comparatively painlessly, will rior polipi are present, and where under any circumstances the use of the tape and clamp method would be objectionable, if not altogether impossible, but with the palate retractor the parts are easily pulled forward and held so while both hands of the operator remain free to use the mirror and snare or cautery wire

W PEYRE PORCHER, M D

Charleston, S C, Feb 6, 1888

ASSOCIATION ITEMS.

ARRANGEMENTS FOR THE ANNUAL MEET-ING, MAY, 1888

Members of the Association will be pleased to learn that the organization of the Committee of Arrangements for the entertainment of the American Medical Association in Cincinnati in May, has been completed, and that long strides have been taken towards securing for the Congress scientific work of high order and social features that will be at least Dr W W Dawson, the Chairman of acceptable the Committee, has associated with himself a number of representative medical men to aid him in the work of the Committee To facilitate this work the following Sub-committees and Chairmen have been appointed

•		
	Sub committee	Chairman
1	Section-Work,	J T Whittaker
2	Halls and Decoration,	B Stanton
	Entertainments,	N P Dandridge
4.	Exhibits,	J C Culbertson
	Programme,	1 Ransohoff
6	Reception,	J T Whittaker
7	Finance,	S C Avres
8	Registration,	Jas M French
9	Printing and Invitations,	J C Culbertson.
10	Transportation and Hotel,	Geo Purviance

Music Hall has been secured for the second week Under its vast roof the various Sections of the Association can be easily accommodated seating capacity of the rooms for Section-Work varies from about 70 to 300 Their acoustic properties approach perfection

By the advice of the Sub-committee on Section-Work, the following circular letter was addressed to the Chairmen of the several Sections, in answer to which a number of very satisfactory letters have already been received

"In the endeavor to increase the interest in and concentrate the work of the special Sections, the Committee of Arrangements ventures to suggest to the Section Chairmen the advisability of selecting a I make use special subject for consideration on the first and second days of the meetings of the various Sections, to ang been bent at a right angle about 1½ inches from be introduced by two, or at most, three papers and the end. With the aid of a self-retaining usual and followed by general discussion, the remaining time to be occupied in the reading of other papers, pre-Medical Record, Jan 14, 1888), any portion of the sentation of specimens, exhibition of apparatus, etc.

"Should this suggestion be favorably received, the Committee begs an early response with specification of the subjects selected, names of referees to present the papers, and of members to open the discussions "

Two weeks ago a very largely attended meeting of the profession of this city was held at which vent was given to no little enthusiasm Liberal subscriptions to the entertainment fund poured in, and in the even ing it was established that the local profession would give their visiting colleagues a right royal welcome Thus far but two entertainments have been positively decided upon One, a grand concert at Music Hall, the other, a reception at the Art Museum, to be followed by a collation As time progresses other entertainments will doubtless be provided

The question that may prove a stumbling block in the way of the Committee is associated with the giving of the annual dinner We cannot accommodate more than three hundred (300) Will that many take the ticket at seven dollars (\$7 00) per plate? The "two kinds of tickets" clause of the mandatory resolution of the Association must be ignored on account of utter impracticability Some of the members of the Committee are inclined to give up the idea of the banquet altogether Others, however, are anxious to see it given, believing that if prominent men from the East and West were especially requested to attend, an excellent opportunity would be given those assembled at the board to bury past grievances, to dispel factional feeling, and in every way to strengthen the Association by restoring harmony

Joseph Ransohoff, Local Sec'y Com of Arrangements

Section on Medical Jurisprudence — The members that contemplate contributing Papers to the Section on Medical Jurisprudence of the American Medical Association, at the meeting in Cincinnati, May, 1888, are requested to forward the titles as soon as possible to the Chairman of the Section The following have already been promised

"Address by the Chairman of the Section," E M

Reid, MD, Baltimore

"Paralytic States, their Relation to Testamentary

Capacity," E C Spitzka, M D, New York

"Medical Jurisprudence in Relation to Wills," Richard Gundry, M D, Baltimore

"Expert Testimony in Medical Jurisprudence,"

Orpheus Everts, M D, College Hill, O

Feeticide, its Increase and Inadequacy of Law for its Prevention and Punishment," H C Markham, M D, Independence, Iowa

"Some Phases of the Civil Laws in reference to the Development of Man," J W C Cuddy, M D,

"Some Points in the Medical Jurisprudence of Insanity," E N Brush, M D, Philadelphia

"The Medico-legal Relation of the Inebriate to Society," I N Quimby, M D, Jersey City, N J E M REID, M D, Chairman

Baltimore, Md

NECROLOGY.

CHARLES M DUNCAN, MD

Charles M Duncan, M D, was born in Dummerston, Vt, July 1, 1808, died October 4, 1884 was the only son of Dr Abel Duncan, who was emphatically "the beloved" and successful physician of his day in Southern Vermont

Dr Duncan's boyhood was largely spent on the farm with his mother, with the advantage of attending the public schools and an occasional term at the academy His book, of which he was always fond, was his companion while engaged in farm work This occupation was uncongenial, and he found no difficulty in making choice of a profession Perhaps the desire to be like his father, whom he always heard spoken of as possessed of every manly virtue, aided him in his choice He commenced his medical studies with Dr Knapp, of Dummerston, attended lectures in Boston and Brunswick, Maine, taking his diploma at the latter place

In 1834 he located in Shelburn, Mass patiently for his work as the young physician must wait, meanwhile gathering about him solid and lasting friends In patient and self-sacrificing labor he laid the sure foundation for strong and enduring friendships in the hearts and homes of the people which few, in any profession, are so fortunate as to He soon took his place among the leading men of the town, and was ever identified with its in-For more than twenty years he served as town clerk and treasurer, and in general was sought not more as a physician than as a friend and coun-He became a member of the American Med-The community is to be ical Association in 1866 congratulated that is served by so earnest, faithful and conscientious a physician, by such upright and unswerving integrity in its business interests, and by one who proved himself so tender-hearted and sym pathizing a friend, for more than fifty years, as did the subject of this sketch. The action taken and resolutions passed by the Franklin Medical Society upon the death of Dr Duncan were fitting, and may be seen in the Boston Medical and Surgical Journal

MISCELLANEOUS

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U S MARINE HOS PITAL SERVICE FOR THE WEEK ENDING FEBRUARY 25, 1888

P. A Surgeon L L Williams, promoted and appointed P A Surgeon from February 10, 1888 February 23, 1888

Asst Surgeon J O Cobb, appointed in Asst Surgeon February 21, 1888 Assigned to duty at Marine Hospital, Chicago, Ill February 25, 1888

Asst Surgeon J B Stoner, appointed in Asst Surgeon February 21, 1888 Assigned to duty at Marine Hospital, New York, N Y February 23, 1888

Asst Surgeon A W Condict, appointed an Asst Surgeon February 11, 1888 Assigned to duty at Marine Hospital, Chicago, Ill February 23, 1888

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

PUBLISHED WEEKLY

Vol X

CHICAGO, MARCH 10, 1888

No 10.

ORIGINAL ARTICLES

THE DIFFERENTIAL DIAGNOSIS OF URÆMIA BY CHARLES W PURDY, MD, OF CHICAGO

HON FELLOW OF ROYAL COLLEGE OF PHYSICIANS AND SURGEONS, KINGSTON

It will be my object in this paper to draw the line as sharply as possible between those comatose states which are sometimes mistaken for uramia, and the I am the more willing to unlatter condition itself dertake this task, believing that the importance of the subject can scarcely be overestimated surely no uncommon experience with those who are engaged in active general practice to meet with cases in which men-especially those advanced in lifestate to which, unfortunately, too often death constiaged it has come to be looked upon almost as a mat-To the mind the thread of possibility, ter of course by which depends the lengthened skein of life, grows strands seem scarcely worth the efforts at strength-And thus the tears of friends, and perhaps the qualms of the scientific conscience are soothed must fall, so the aged must die

In a given case of unconsciousness of sudden onset, the result may be speedy death or recovery, depending very much upon the cause and the measures employed for relief And this brings us at once to in such cases

A number of conditions accompanied by more or less complete unconsciousness are to be met with that may be confounded with uræmia. It is important that the symptoms and signs of these various states study, for upon these we must often depend solely a few hours to several days or even weeks

able to readily construct the diagnosis from the symptoms alone

In order to differentiate accurately uramic coma from the various conditions with which it is sometimes confounded I shall first endeavor to draw a correct picture of the various phases of uræmia itself, and passing from this I shall consider the various conditions with which it is more commonly confounded, and lastly, I shall present in tabular form the chief features of each, that the observer may at a glance study their differential features

Without entering at present upon the much vexed question of the nature of the uræmic power itselfwhich still remains an unsettled problem—it should first be noticed that it usually expends its greatest force upon the nervous system, and therefore we must look to the nervous system for the most prominent manifestations of this disorder have been suddenly struck down in an unconscious as the central nervous system is concerned, it is a somewhat remarkable fact that the uræmic poison tutes the speedy sequel Indeed, so frequently is this usually acts upon the sensory and motor centres in picture presented to the professional eye, that in the diametrically opposite ways Upon the sensorium the tendency is towards abolition of function-and consequently tending to insensibility and coma, while upon the motor centre—the medulla—exaltaso brittle with advancing years that its individual tion or stimulation is produced - tending towards convulsions Coma and convulsions then are the most common results of the more intense action of the uræmic poison upon the central nervous system, by the reflection that as the leaves turn yellow they but in less intense degree of action the uræmic poison often seems to reverse this order—on the sensorium to produce excitement, delirium, etc., and upon the motor centre to produce a mild and transient paralysis This latter fact should not be lost sight of since in the first place it is perhaps not generally known the importance of an accurate and speedy diagnosis that uræmic coma and convulsions are often preceded by paralysis, and in the second place the occurrence of paralysis may lead the physician to mistake uræmia for apoplexy-more than one such instance has come under my observation within the past year

Uræmic coma is rarely of very sudden onset, but should receive the most careful consideration and is preceded by certain well-marked symptoms for from as data upon which to construct our diagnosis The most constant and prominent of these prodromata history and important facts bearing upon the case of course should not be lost sight of, since these fresensibility of the voluntary muscles, increasing drowsensibility of the voluntary muscles, increasing drowquently come to our aid opportunely in doubtful siness, more or less decided diminution of the volume Since, however, a state of unconsciousness of the urine, and a peculiar odor of the skin and precludes the possibility of gaining any definite oral breath-uræmic Among the less common prodromata information from the patient it becomes more neces- are, acute visual disorders, dyspnæa, distressing itchsary in these than in any other class of cases to be ing of the skin, restlessness by day and insomnia at night, delirium, deafness, paralysis, and convulsions

The headache is most often frontal or temporal if in reality he is rarely completely so in pure uramia the underlying cause be acute renal trouble, most often occipital if chronic—as cirrhosis or granular contracting kidney Headache is perhaps the most constant of all the early symptoms of urremia, and it is often very distressing. It may be distinguished from ordinary neuralgia by its non-conformance to the evening exacerbations so constant in the latter

Nausea and vomiting are scarcely less constant symptoms, and when present are often very obstinate and prevent the successful administration of medicine by the stomach The evaltation of reflex muscular sensibility is observed in the frequent twitchings of cer- laris responds to stimulants tain groups of muscles—most often those of the face The visual disorder may consist of acute amaurosis gutteral—the noise being made by the cheeks and -the patient becoming suddenly deprived of vision, or a more gradual and less complete impairment of vision may come on which is most likely to become hard and tense. The temperature is raised, marking permanent The first form is more common in acute renal disease, while the second form is more common if present it is more prominent about the malleoli in chronic forms of kidney affections dyspnœa occurs in two forms—the first closely resembling asthma, and the second due to pulmonary ædema and characterized by rapid respiration, 40 per minute or more A third form of respiratory disorder of not infrequent occurrence is Cheyne Stokes respiration—which should not be confounded with the more regular and uniform slowing down of the respiration due to large doses of opium

Restlessness is often very marked and not unlike the condition preceding delirium tremens, save that the apprehensiveness of danger so marked in the latter is absent The delirium—or mental intoxication —when present is peculiar in certain respects Upon fixing the attention of the patient closely he is usually | it is often the outgrowth of the same underlying cause quite rational, and replies to questions intelligently, but he is usually very forgetful-often repeating a most careful consideration question he has just asked and received a reply to

state, "these patients rarely sleep well" save under the influence of a narcotic

Paralysis is most common in the muscles of the face—usually of one side—and often involving the It often extends to the arm and leg pairment of sensibility in the affected part is rarely able complete even when the motor power is entirely the more trustworthy sign If the hæmorrhage occur abolished and rarely does it continue longer than twenty-four face may be pale but the general hue of the skin is

Let it now be supposed that the physician is called to see a case of typical uræmic coma, in which state the patient has been accidentally discovered and a hasty diagnosis is demanded The appearance of the patient is somewhat pallid This pallor is not the result of weakness of the circulatory forces as in syncope, but is rather due to some underlying renal disease It is therefore an unhealthy, partly cachectic pallor-familiar to those who see much of kidney pallor) occur chiefly in cases of early cirrhosis of the be bitten, but it is not deeply lacerated as in epilepsy kidney when the color of the skin may not depart in or in uræmia the least from the usual tint of robust and perfect health

Apparently the patient is profoundly insensible, Upon vigorously shaking the patient, or shouting in his ear, indications are observable that consciousness is not entirely abolished. He may indeed very often be made to speak, or to reply to questions asked in a loud voice—though usually in monosyllables If unable to do this there will at least be observable upon close inspection some expression of countenance indicative of perception, if not of comphension

Reflex sensibility of the voluntary muscles is still present and may be excited by percussion

The pupils are somewhat dilated and the orbicu-

The breathing is often stertorous, but not deep and lips not by the throat The pulse is increased in frequency—90 to 120 per minute—is rather full, often 100° to 102° F Œdema may or may not be present, The acute and eyelids

If the urine be drawn—and it always should be in doubtful cases—it will usually be found highly col ored, and to contain albumin The odor of the breath is characteristic—uræmic

Such are the more trustworthy symptoms of uramic coma, and they are essentially different from those of most other states of insensibility as will be presently

If to these we are enabled to add the history of the case, we shall have many of the premonitory symp toms already considered as additional guides

The condition most commonly confounded with uræmic coma is hæmorrhagic apoplexy and since as uræmia-vaso-renal change-it should receive

In recent typical apoplexy the insensibility if pres Insomnia is a prominent feature of the uramic ent at all is usually complete—it being impossible to arouse the patient or to elicit evidences of perception or comprehension This state may be reached gradually the same as in uræmia, though usually much The pupils may be contracted or di more rapidly Im- lated, and in this respect they are exceedingly vari-Inequality of the pupils-most common-15 The attack often lasts less than an hour in the pons varoln the pupils are contracted The respirations are increasingly usually normal stertorous and gutteral in character—the sound being made in the throat as in heavy deep snoring pulse is reduced in frequency, sometimes reaching 60 or even 50 beats per minute, and it is "labored " It is increased in volume and marked by tension temperature is usually subnormal, often marking 96° Paralysis is usually present of the hemiplegic There are rarely true convulsions with apo order plexy, the patient may fall and muscular spasms of Exceptions to this rule (the appearance of a clonic order may follow, and even the tongue may

It should be remembered that in apoplexy several of the more important symptoms vary with the stage

of the attack may be preserved and insensibility may come on After a few hours the clot may and often Perhaps the most conpulse and the temperature stant and valuable diagnostic symptom of apoplexy If actual paralysis cannot be made is hemiplegia out definitely, a close scrutiny will yet nearly always reveal "one-sided symptoms" of some kind If the arms be raised, for instance, and then permitted to In apoplexy it is reduced in the first stage drop, they do not fall uniformly

Since apoplexy from cerebral hæmorrhage is confessedly the most difficult of all conditions to differentiate from uræmic coma, it is proper that they now be considered side by side, as it were, in a compara-If the uramic coma be the result of chronic Bright's disease its history is often identical with that of apoplexy The patient is beyond middle age and well nourished The left ventricle of the heart is more or less hypertrophied, indicated by heaving impulse of apex beat, accented second sound of the heart most distinct near and to the right of the sternum in the second interspace, also extended area of cardiac dulness The arteries are hard—atheromatous—and the pulse is marked by sphygmograph Renal changes are almost as common in one case as in the other and, therefore, albuminuria will not form a safe distinguishing guide here The premonitory symptoms are much alike in each vertigo, visual disorders, epistaxis, drowsiness, pain in the head, and vomiting Indeed the very time of attack coincides, being most frequent after some unusually active or long continued exer-

Generally speaking the age of the patient is of service as an aid in distinguishing doubtful cases Thus, apoplexy is almost limited to middle and advanced life Albuminuma in the aged is for the most part due to contracting kidney-cirrhosis-and my own obervations have shown me that contracting kidney more often gives rise to convulsions without than with coma

On the other hand if the patient be under 30 years of age, apoplexy would be improbable, and uræmia would, moreover, be less likely to be overlooked, since it would then as a rule depend upon an acute renal disease, the symptoms of which could scarcely escape observation

symptoms of uræmia and apoplexy It has already characteristic indication of apoplectic coma. chief features are its completeness, permanency and one sided character—hemiplegic It comes on before or with the loss of consciousness, and it lasts through the attack with little or no variation and if the patient recover it is the last symptom to yield, often in fact becoming permanent Uremic paralysis as a rule precedes the coma for some hours or days It is transient, often lasting but half an hour, rarely than uremic longer than twelve to twenty-four hours, and conse-

Thus very early, the consciousness involving but the face or the face and arm I have in a few cases seen complete hemiplegia (motor)

The pulse in apoplexy is slowed in the first stage. does excite inflammation, thereby raising both the and usually does not become accelerated for many hours-until inflammation arises In uramia the pulse is accelerated from the first, before coma comes on. so that however early we meet with uramic coma the pulse is increased in frequency-90 to 120 temperature follows much the same course in each mains sub-normal for a variable time, always for hours, then it slowly rises, and in two or three days it may reach 100° to ro3° F

> In uræmia the temperature rises before coma comes on usually reaching to 100° to 102° F, and fluctuating between these points as the attack continues

> In convulsions due to uræmia the spasms are tonic, general, and usually repeated with more or less increasing frequency As a rule the convulsions precede, and are several times repeated before the appearance of coma, the latter coming on slowly and gradually, hours usually elapsing before its full devel-If unprotected, the tongue is bitten and opment often badly lacerated

In apoplexy, as previously stated, true convulsions decided increase in tension-well shown by the are rare, when present they are mostly clonic, rarely repeated, and precede the coma, the latter rapidly following the fall The tongue may be bitten but is not deeply lacerated In apoplexy the convulsions may be unilateral, in pure uræmia they are never so

The loss of consciousness in apoplexy is more rapid, more profound, and less variable than in uræmia An hour or so after the seizure, the patient is often completely comatose in apoplexy, and if he recover consciousness it most always requires several days for its accomplishment In uræmia unconsciousness creeps on slowly in a fitful, vacillating manner, and even after apparently complete unconsciousness is reached, there may be intervals of more or less consciousness until very late-near death In uræmic coma I have rarely found complete abolition of perception save very near death, and there is pronounced irritability of the voluntary muscles upon percussion In typical apoplectic coma abolition of consciousness is usually complete, and, moreover, when established the insensibility continues unchanged until death or general improvement occurs In apoplexy the respirations at first are as a rule easy and natural Sooner or later they become deepened, Passing now to a more minute analysis of the chief and finally stertor appears of a deep, noisy gutteral To one in an adjoining room the noise character been stated that paralysis is the most constant and very much resembles loud snoring. In uramia the Its respirations at first are also easy and natural Should cedema of the lungs be present, however, which is not uncommonly the case, the respirations become rapid—40 to 50 per minute Noisy stertor is rare in pure uræmic coma, and the little noise present is made with the cheeks and lips-a soft puffing noise Gutteral stertor may appear near death, as it often does upon the approach of death from many causes other

If any information of value is to be gained from quently is rarely present during coma While it is the pupils, it is mostly in the earlier stages of uremia one sided, it is rarely so extensive as in apoplexy-and apoplexy. In the former the tendency is to dilation of the pupils; sometimes, indeed, they are so widely dilated as to give rise to suspicions of bella- lepsy does not closely resemble uramia, save in the In apoplexy the pupils are very donna poisoning other contracted, or one pupil may be normal and it is only those cases of epilepsy in which the conthe other one either contracted or dilated Inequality is the more common feature forgotten that on the near approach of death from most causes, the pupils often become widely dilated

Having now reviewed the chief differential features of uramic and apoplectic coma, I shall next take up the subject of epilepsy, and note in passing the differential features of its symptoms from those of ura-First, as to the history It will of course be unusual to meet with a first attack of epilepsy, and therefore it will be generally known by the friends that the patient is subject to "fits"

Epilepsy is a disease of the young-75 per cent of the first attacks occur before 20 years of age The attacks are most common at night, unlike in The attack is always both apoplexy and uramia sudden, a few moments at most constituting the prodromal stage Convulsions always precede the coma, Consciousness is and they are of the tonic order completely abolished from the beginning, even before | scious, stertorous, comatose and anæsthetic The convulsions are rarely the convulsions begin repeated the same day, more often several days or weeks elapse before their return In uræmia, it will be remembered, a few hours at most elapse between In epilepsy conthe convulsions when repeated sciousness gradually returns after the convulsive attack, the average period of coma being about one consciousness, since epilepsy or apople y sometimes hour, unless the attack occurs at night, when it is In uræmia unconsciousness does not much longer usually occur until after several attacks of convulsions, and it gradually deepens instead of wearing away after the fits

The coma following the epileptic convulsions is much like a sound sleep, after the first few minutes, as a rule, the patient can easily be aroused There is rarely true paralysis and, when present, it is probably due to cerebral hæmorrhage It is true there is nearly always more or less loss of power after an epileptic convulsion, and in the arms and limbs this may be apparently complete, but it wears away in a few minutes or hours, being a weakness or prostration rather than a paralysis The coma of epilepsy 15 most often a confused mental state from which the patient to some degree of consciousness by shaking steady stertor, "coming and going," guttural in tone, give his name and address, and if so it is to be noticed patient may be easily aroused There is usually unand the unconsciousness varies greatly both in intensity and in duration In epileptic coma reflexes are not abolished, the pupils are normal, the conjunctiva is sensitive, and the orbicularis responds is usually bathed in perspiration—at first warm, dusky and purple, but gradually cooling and becoming pale

The temperature does not vary much from normal, temperature may rise above 100° F

The pulse in epileptic coma is rather small and creased in frequency If a tracing be taken with the to be able to speak, the articulation is thick and in sphygmograph it shows the features of dicrotism It distinct This indicates a disproportionate action

will be seen from the foregoing description that epiconvulsive seizures, and these are strikingly similar, Sometimes one pupil is dilated and the except in their frequency of repetition Practically, vulsions are rapidly repeated, and the coma conse-It should not be quently deep and prolonged, that are likely to be confounded with uramia Happily, such attacks are rare, and for the most part due to traumatic causes which rarely escape attention

We have next to consider the coma depending upon alcoholism, often one of the most difficult con-There are, indeed, few ditions to diagnosticate states of unconsciousness with which it may not be Drunken stupor has even been misconfounded taken for syncope and, strangely enough, the unfortunate patient has been made to swallow brandy for The coma of drunkthe purpose of reviving him enness varies in intensity according to the dose of alcohol taken, and the susceptibility of the patient to There may be only quiet stupor, from its influence which it is easy to arouse the perceptive and voli tional powers of the patient, or all the senses may be abolished, the patient being completely uncon-

In typical drunkenness the breath is usually loaded with alcohol, and this is readily recognizable by the It is especially so if the debauch be due to The odor of alcohol in the breath, while it is a strong presumption of drunkenness, yet must not be absolutely relied upon as the cause of un supervenes upon a fit of alcoholism

The respirations are heavy and often stertorous in The stertor, when present, is variable drunkenness The respirations are deep drawn and intermittent The stertor is simi and less frequent than normal lar to that of heavy sleep The expression of counter nance is vacant, sometimes the features are suffused and bloated, the lips are livid, the pupils are dilated,

and the conjunctiva is much injected

The pulse is small and rapid, and the heart's action The temperature is usually subnormal is feeble The skin is usually covered with cold, clammy per-Vomiting is common, and evidences spiration thereof should be sought for about the mouth or clothing In some cases it is possible to arouse the or pinching him that the articulation is thick, drawling and indistinct He awakens confusedly and relapses again into ap-Sometimes, however, the patient be The skin comes irritable upon disturbance and indulges in This is often the diagnostic sign relied upon by the police patrolman, who seeks to elicit it by sharply striking the sole of the shoe with his baton, an excellent means of exciting reflexes, but an un however, the convulsions be rapidly repated, the trustworthy diagnostic of alcoholism, since patients in apoplectic conditions will sometimes resent such disturbance both verbally and muscularly. It has been stated that if the patient be aroused sufficiently

of alcohol upon different centres of the nervous sys tem, which is often very marked

Tactile sense and motion are usually in reality more disturbed than is cerebral perception and consciousness In other words, coordination of muscular action and special sense are more impeded than The patient often reasons so well! is cerebration with himself that he requires to be told that he is drunk, unless he attempts to walk, when difficult coordination of muscular motion teaches him that The medulla and spinal cord. he is intoxicated therefore, are more deeply anæsthetized than is In certain individuals these featthe cerebrum ures of alcoholism are especially prominent, indeed, in such the intellectual faculties are actually sharpened, even when motor coordination is greatly In such cases most brilliant reasoning powers are manifested or able speeches delivered even though the subject be unable to stand without It will be remembered that, in describing uræmia, it was stated that the uræmic poison tended to a directly opposite action upon the central nervous system, viz to stimulate the spinal system and medulla, and to depress the cerebral centres If, therefore, the patient can be in a measure roused, these distinguishing features should be carefully observed in all doubtful cases

Dr von Wedekind has recently brought forwards a new test of drunkenness for which he claims "infallibility " "By simply pressing on the supraorbital notches with a steadily increasing force you may, with certainty of success, bring an unconscious alcoholic to his senses, and thus differentiate on the spot between alcoholic and other comas " Incredible as this may at first sight seem, Dr von Wedekind has brought forward a record of 137 cases of alcoholic coma gathered from the ambulance service in which his test has been applied, and in the nine cases of failure of the test out of the whole 137, each one was accounted for by subsequent discovery of some additional cause of the coma

From what has been already stated as to the action of alcohol upon the central nervous system, it would be expected that convulsions would be rare from this cause, and such in fact is the case A single convulsion does sometimes occur during, or more frequently preceding alcoholic coma, but rarely are convulsions repeated in pure alcoholism as in epilepsy or in

It seems necessary, in passing, only to mention the possibility of confounding syncope or hysteria with uramic coma These affections are so familiar to those in general practice, and the symptoms are so well known, that they are not likely to be mistaken for any of the states already considered In syncope return to consciousness is so complete, that nature soon reveals the diagnosis, while in hysteria the symptoms, though exceedingly variable, yet possess a general definiteness familiar to all It remains, therefore, but to consider the subject of poisoning as contrasted with uraemic coma Although various narcotics produce a state of insensibility and coma,

as well as death in large doses, the effects of opium alone will be considered here, since it is the narcotic for the most part selected for destructive purposes, as well as the one, from its wide range of use, which most commonly gives rise to accidents

The physiological action of opium and its preparations upon the human organism in medicinal doses is well known It is only with the larger doses-approaching lethal-that we now have to do, since it is only the deep narcotism induced by decided doses that constitutes the coma likely to be confounded with uramia

In coma due to opium the patient may be aroused sometimes to a greater or less extent, but quickly lapses into stupor In late stages it is difficult, if not impossible, to rouse the patient The pupils are minutely contracted and insensible to stimulation The respirations become slower and more shallow, generally feeble, and sometimes stertorous may become reduced to 10 per minute or under The frequency of the respirations is perhaps the best gauge of danger, since in most cases of death from opium the direct cause is asphyxia from paralysis of the respiratory centres The odor of opium is usu-The pulse is slow and ally present in the breath feeble, the face is shrunken, pallid, cyanosed, and The eyes are heavy and the expression is ghastly The skin is warm and moist with the lips are livid perspiration, and often intensely itching, especially about the nose

In differentiating the coma of opium from that due to other causes, the special features to be noted are, first, the contracted state of the pupils almost pathognomonic, and is only absent at the approach of death Hæmorrhage into the pons Varolii, as first pointed out by Wilks, induces a similar contraction of the pupils, but this is almost the sole morbid state that produces the uniform and extreme contraction of the pupils similar to opium narcotism Second, the slowing down of the respirations is almost characteristic of opium coma. It is to be borne in mind that, in the early stage of opium narcosis, the respirations are rather hastened, eventually, however, if the dose be large, the respirations become decidedly Cheyne-Stokes' respiration, which is less frequent very common in uræmic states, should not be mistaken for retarded respirations due to opium distinction is easy, and it is only necessary to mention the possibility of mistake to guard against it

Convulsions are rare from opium. In many of the lower animals the action of opium constantly tends to produce convulsions, but in man this result is chiefly confined to children The history is important mostly in an exclusive way—the symptoms of the states already considered, as a rule, being absent especially the unconsciousness is so brief, and the Aside from this, opium poisoning is most frequent in the young

It should be borne in mind that, in the consideration of the various states of unconsciousness described in this paper, the aim has been to depict the more trustworthy features of typical cases Variations from these types are to be met with, even in uncomplicated cases, which tax the skill of the most acute diagnostician

¹N 1 Medical Record August 27 1887

DIFFERENTIAL TABLE

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	Unimic Coma	Violen	Lilleisy	Vrconorisa	OPIUM COMA.
Age	Most common in the young	Almost confined to middle and advanced life	Most common under 3c	Common at all adult	Most common in the
History	Previous attacks rare Bright's disease present	Previous attacks rare Heredity marked gran ular kidney common	Previous attacks the us ual feature	Previous attacks common	May be habit or accident
Appearance	Pallid, exchectio	Normal	Dusky, purple, gradually becoming pale	Features suffused, bloat ed lips livid, expression vacunt.	Features shrunken,pal lid, cyanotic, expres sion ghastly
Pulse	Increased 90 to 120 per minute	Slowed 60 per minute full	Slightly increased, small, feeble, and dicrotic	Increased, feeble, small	Usually slowed, feeble
Tempera ture	Increased from beginning 100° to 102° F	Lowered 96° T or lower	Increased slightly 99° F	Lowered somewhat	Somewhat lowered
Pupils	Tend to dilate	Unequal	Normal	Dilated	Contracted
Respir'tions	May be hastened or not stertor labini	Slow stertorous, gutteral	Stertorous, gutteral, un steady	Deep, slow, stertor inter mittent	Slow, shallow feeble.
Special Features	Unconsciousness not com plete peculiar odor of breath consulsions re curring frequent pulse temperature increased albuminuria	sensibility unequal pu	unconsciousness not	present injected con	um breath, slow res pirations cyanosis

It should likewise be remembered that two, or even | suffering but little from shock, pulse 90, tempera three of the causes considered may combine to pro- ture normal, no pain duce a given state of insensibility, thus bringing about large bullet wound half an inch below umbilicus, and considerable confusion of the symptoms patient the subject of granular kidney-interstitial make laparotomy, and assisted by Dr E W Lee, nephritis—may take a dose of opium, the tendency of which will be to suppress the urine, and uræmia may be the result convulsions may induce cerebral hæmorrhage, since all the conditions are favorable to such result in patients with granular kidneys. In such a case we have the symptoms of apoplexy added to those of uræmia, which latter, in turn, arose from the effects upon the kidneys of the opium Again, the ingestion of a large dose of alcohol may precipitate an attack of convulsions in an epileptic subject, and in turn the convulsion may lead to cerebral hæmor-The possibility of mixed cases should therefore be kept in mind Happily, such cases are comparatively uncommon, but when they do occur they are only to be detected by careful study of the leading symptoms of each stage of the attack, since one cause usually supervenes upon another, rather than all occurring simultaneously

In conclusion, it is hoped that the appended differential table may aid the diagnostician by presenting at a glance the leading features of each of the comatose states considered in this paper

163 State St, February 27, 1888

GUNSHOT WOUNDS OF THE ABDOMEN

Read before the Chicago Pathological Society Feb 13, 1888 BY I B MURPHY, M D,

OF CHICAGO SURGEON TO COOK COUNTY HOSPITAL

at 8 PM, June 16, 1886, suffering from a bullet domen filled with blood. The suture in post-pen-Case I —H M, age 26, admitted to the hospital I saw him at 10 P M wound of abdomen

On examination, I found a Thus, a an inch to the right of median line I decided to and the House Staff of the Hospital, I made the median incision three and one-half inches long Furthermore, repeated uræmic | began by examining the small intestine and repairing each wound as it was exposed by first paring off the ragged edges with a scissors, then inserting a con tinuous catgut suture in the mucous membrane, then in the peritoneal covering, the first row of sutures being entirely covered by the second was continued until the eleven openings were united I found that the bullet had passed through the posterior peritoneal wall close to the pelvis of left kidney, cleansed the peritoneal cavity with a warm 1/2 per cent carbolized water, united the abdominal peritoneum behind with catgut, also the opening made in the anterior peritoneal wall by the bullet, sewed the peritoneum at the incision with a continu ous catgut suture, the muscular wall with deep silk suture (interrupted), dressed the parts with iodoform gauze, then carbolated gauze and borated cotton Operation lasted two hours, patient's condition good after the operation was completed, pulse 110, and of good volume

The following morning the House Surgeon re "No vomiting, patient slept the greater part of the night, did not complain of pain, pulse 110, temperature 991/2° F, no thirst or tympanites 7 PM pulse 96, temperature 99° F No vomiting and no pain, says he is hungry " I called at the hospital the following morning and found that the patient had died suddenly at 7 30 AM, after spend-At 6 AM he coming a quiet and painless night plained of weakness and said he was fainting

Autopsy - Found heart and lungs normal, ab He was toneal wall torn through, a large quantity of blood in renal artery from which the hemorrhage came

The wounds in the intestines were all completely united, being both air and water tight, in the majorthe patient only lived thirty-six hours after the operation, the peritoneum had already restored itself, and made the openings impervious. No evidence of beginning peritonitis Cause of death hæmor rhage from renal artery

Case 2 -G J, colored, aged 22, admitted to hospital May 24, 1887 Said he was shot in the ab-

domen about two hours previous

On examination, a bullet wound two inches to right of median line and an inch above umbilicus was found, dulness in the lower portion of abdomen Pulse 66, of good volume, some shock I decided on an exploratory incision, found the abdomen full of blood, the bullet passed from the abdominal wall substance almost directly backwards and into the The hole in the posterior surmuscles of the back face of the liver could be felt by passing the hand around the liver There were no perforations of either stomach or bowels The abdomen was cleansed, about two pints of blood and clots removed, the hæmorrhage had ceased The opening made by the bullet in the abdominal wall was closed with catgut suture from the inside, abdominal peritoneum united with catgut suture, and the muscular tient since, and he is feeling as well as he ever did wall and skin with silk Dressed antiseptically Operation lasted thirty minutes Patient in good condition

May 25 Slight tendency to vomit during the night and some pain, but feels well this morning The patient's temperature did not reach 99° from apparently penetrating down and in symptom until June 3, when he complained of pain in the back, and on examination a small swelling just over the supposed position of the bullet was He was anæsthetized and the bullet re- from shock moved, also a small quantity of pus Convalescence was rapid and patient was discharged June 13

ing fifteen feet in front and a little to the right one-half inches in front of the axillary line shock, wound had been probed before patient came tures to hospital

Three hours after the injury patient was anæsthetof an inch from its lower margin, also perforating on the back above the crest of the ilium the transverse colon on its convex portion about tion lasted 70 minutes, patient very much collapsed one-half inch from its beginning, leaving a bridge of

the retro peritoneal region, an opening in the left point of entrance and exit, then passing into the muscles of the back an inch to the right of the spine.

The bridge of intestine between the two openings was cut through, the edges of the wounds freshened, ity of these the catgut could not be seen on account | making an opening about one an one-half inches of the deposit of reparative material placed about in length. The mucous and muscular layers were them No evidence of impending gangrene Though first united with a continuous catgut suture, the peritoneal covering was then sewed over it with a continuous catgut suture, about half a drachm of fæcal matter escaped from the intestine after the opening was enlarged, but none before Abdomen cleansed with boric acid solution, and blood-clots Parietal peritoneum united with continuous catgut suture Muscular and continuous tissue united with interrupted silk suture Dressed anti-Operation lasted about three-fourths of septically an hour Patient came from the operating table in good condition, pulse 90, and of good quality. 7 30 PM, pulse 78, patient vomited considerable in the afternoon, some pain in the wound

August 24 8 AM, pulse 72, temperature 99°; into the margin of the liver, passing through its slept considerable, ordered 1/2 ounce doses of brandy every two hours with carbonated water pulse 76, temperature 100 20, vomited up to 4 P M,

but not since, feels hungry and thirsty

August 25 AM, pulse 74, temperature 98 5°, slept well, no vomiting From this time on the patient made a rapid recovery The first dressing was removed September 2, complete primary union Sutures taken out and wound redressed Patient discharged cured September 16 Have seen the pa-

Case 4 -] H, aged 26, was admitted to Cook County Hospital on December 1, 1887, at 8 30 A M, for gunshot wound of abdomen On examination a wound was discovered on the right side nearly in the axillary line, and just below the costal cartilages, that time on, nor did he have a single untoward the onfice were blackened and powder-stained, and another opening on the left side midway between the costal cartilages and the level of the umbilicus, was found The patient was suffering profoundly

Under ether, and after the patient had valked two miles, the wound on the right side was enlarged, Case 3—Geo S, colored, aged 57, musician (but when it was found that the bullet had entered the more of a drunkard) by occupation, admitted to hospital August 23, 1887, at 3 PM Was shot with a 38 the liver in its downward course. The usual median course and the liver in its downward course are the state of the liver in its downward course. calibre bullet a few hours before, his assailant stand-incision was made, revealing two wounds in the The stomach with extravasation of food into the abdobullet entered on a level with the 9th rib, one and men (small quantity), and one in the mesentery, Urine some bleeding from the latter These were all carecontained no blood Pulse 78, full and strong, no fully sewed up with deep and superficial catgut su-The intestines were drawn out and enveloped in warm towels No wounds were found in The peritoneal cavity was thoroughly washed them ized, and an incision was made three inches long out with warm solutions of boric acid, and the indownwards and inwards from the point of entrance cisions sewed up with silk after securing the peritoof the bullet towards the umbilicus The bullet was neum with catgut A rubber drain was passed found to have passed through the liver three-fourths through the wound on the right side and brought out

Through an error the patient was given two hypointestinal tissue half an inch in length between the dermic injections of one third grain of morphia, and he showed severe symptoms of opium poisoning, and did not become conscious until 6 PM, some eight nours after the operation. The pulse became At 9 PM the patient berapid and more feeble came delirious and died at 11 30 P M doubt that the opium contributed somewhat to the remarkable cases are threadbare from being quoted unfavorable outcome in this case, also the prolonged operation Autopsy showed the abdomen case of this kind and say, "Nature will have nothing clean and no blood in it

REMARKS —There are no positive symptoms of perforation of the stomach or bowels, ie, if we do not consider the mere fact that a bullet passed through the abdominal cavity per se a positive symp- rotomy, and the bowels examined, but he says, "if a tom of perforation of the viscera or one of the large portion of the bowel protrudes from the opening and vessels And that we should so consider it is proved is not wounded, it should be returned and the open by the results of Dr Parkes' experiments in 38 bulling sewed up." He goes just half way in the right let wounds of the abdomen in dogs, in which only two escaped injury of the stomach and bowels, and McCormac tell but that the bowel may be wounded in one of those there was considerable hæmorrhage, making only about 2 5 per cent in which the viscera bullet? Not any more than he can tell from the ex which we act and consider it pathognomonic where tions there are in the bowels, and that it would be a greater percentage of the cases conform with the absurd for a man to attempt the latter is thoroughly us in the face, is it not the height of presumption periments of Dr Charles T Parkes on dogs He for us to hope that the viscera are not injured after has opened up the field in a most thorough manner, a bullet has traversed the abdomen? Indeed, the and demonstrated to us what can be expected from symptoms of shock were only slight, except in two a bullet passing into the abdomen If we will not cases, and in one of them it was due to hæmorrhage

In Case 4 there was no vomiting of blood to indicate a wound of the stomach At the International Medical Congress it was suggested by the first speaker on that subject "that no operation should be performed until such time as fæcal matter appeared at the external wound " This, of course, is absurd, for the food of fæcal material does not escape from the bowel at once after the injury, but it is principally on manipulation that we get an immediate escape, , a primary escape of the contents of the alimen

Nature prevents this escape by an ecmucous and muscular coats plugging Dr Gross states that gs temporarily in all cases," but he does on takes p me that elapses before it the p e bow fluid eight hours after the shooting of perforating wounds hen not?

> e shot through the abdomen | median incision sian war, five cases of recovery are mal position as possible, and not expose them to the

reported in one corps, but I cannot find any report of the number of deaths Larrey, in a long experience, reports only one case of penetrating wound without immediate serious results, and afterwards There is no the bowels were found to be contused These few Abernethy used to shake his head when he had a to do with wounds of the small intestines" Bell says, "We announce them as fatal" Sir William McCormac says that in cases of perforation the me dian incision should be made as for any other lapa How can Sir William direction and then falters three or six inches from the point of entrance of the Is there any other sign in surgery upon amination of the external wound how many perfora None that I know of With this fact staring demonstrated by the excellent and well known ex act it is our fault Ostrich-like, shall we stick our heads in the sand?

The light that has been thrown on the subject from numerous experiments, and the results follow ing the treatment of cases influenced thereby, puts us in a position where we cannot escape the respon sibility from the charge of malpractice, when we stand idly by and allow our patient to sink from a septic peritonitis or bleed to death from a wounded We, as scientific men, should act fearlessly, and having done so we have the consciousness of having fulfilled our whole duty

All the preparations should be as thoroughly anti septic as for laparotomies for other diseases, ie, the disinfection of hands, instruments, etc

The first incision should be to enlarge the opening f the stomach as well as made by the entrance of the bullet down to the pa not more than a drachm rietal peritoneum, to be sure that the ball entered , notwithstanding the stom- the abdominal cavity, and that it did not rest on the uantity of food, the two peritoneum, as it did in a case of mine it the index finger, and the incision should be, in the majority of cases, made in the median line, as it allows of a greater latitude for riments fæcal matter did not the examination of the organs, but in some cases it g in a single case This will be impossible to bring the wounded bowel to ening by the mucous the opening in the median line heardy appearance of is outside of the mammary line the incision should be over the entrance of the bullet, and enlarged from There are that point as may be deemed best,—that is, in large, In all of my experiments upon rted of perforating broad-bodied men ere the patients recover the cadaver I was able to reach the wounded bowel in the most remote parts of the abdomen from the median incision. The examination of the organs In the late rebel- should be methodical and rapid, beginning with the ypenny, as his surgeon records it, cæcum and examining the small intestines upwards, driven plump through his guts " In being careful to keep the bowels as near their nor

exit opening in the peritoneum can be found, sew it with silk to prevent a return of pus into the abdom-The number of openings in the bowels wounds may vary greatly, and too great care cannot be exand remain open, causing a fatal outcome

Should the mesentery or omentum be wounded great care must be exercised in ligating the vessels around the opening by suturing the proximal side of the mesentery with catgut, using a full curved round the serosa in its entire circumference between both layers of peritoneum in the mesentery

Another important point is to look for hæmor-linsure adhesions (Dr Senn) ball makes its exit from the peritoneal cavity Should there be oozing from this opening it should be enlarged and the vessels closely examined, and if injured or oozing ligate them Had I done this in my first case, I am quite sure the fatal hæmorrhage would have been avoided I may also mention a case in the hands of one of my colleagues where fatal hæmorcellular tissue in the neighborhood of the left kidney The patient died of exsanguination on the third day Autopsy showed the source of the hæmorrhage, also that the patient had no peritonitis

The suture to be used is one that (1) can be easily surfaces in position for forty-eight hours without their position causing a pressure atrophy, (3) that no suture that shall be as little tension on the suture in the peritoneal layer as possible, (5) they shall be aseptic, (6) they shall diminish the calibre of the bowel as and spread the omentum over the bowel little as possible, (7) serosa shall come in contact

The materials that at once suggest themselves to fill all the requirements are chromated and juniper catgut, softened in carbolized water and sublimated silk (1 1000) I used carbolized catgut in my cases, found shock but since that time the reports of Professor Theodore Kocher's experiments and operations in Berne, have convinced me that catgut prepared in carbolized oil or alcoholic solutions of the same are not reliable and frequently septic The details of the same can be found in the Correspondenz-Blatt fur Schweizer Aerste, and are well worth perusal The best mode of insertion to supply the above mentioned requireinserted very rapidly, and the tension on the serosa is lessened by the approximation of the mucosa, it will remain unaltered forty-eight hours and not

air, repairing each opening as it appears If the exposed on the mucous surface, as in Jobert's suture, but it would diminish the calibre of the bowel in transverse wounds, and for that reason, and that inal cavity, should any form in the tract or around only, is Lembert's suture used in large transverse

A portion of the bowel must be excised when more ercised to make certain that none escaped notice than three-fifths of its calibre is destroyed, otherwise there will be a stricture at that point This can readily be accomplished by invagination with a rubber supporter in the intussusceptum, as suggested by Dr N Senn, and a continuous suture approximating This may be needle (Czerny), also removing all blood clots found further supported by the plastic operation on the omentum to support the bowel in this position and When there are two rhage in the retro-peritoneal cellular tissue where the large openings which can be approximated and leave a fistula, allowing the contents of the bowel to pass through the fistula and the loop of bowel to be retired (if the loop is short, that is, less than four feet in animals), the openings should be approximated by Dr Senn's bone-tablets, or by the suturing process suggested by one of the surgeons in the late Rebellion Dr Reybard's wood-plates may be used and the rhage occurred from a vein in the retro-peritoneal opening approximated to the abdominal parietes The danger when the bone- and wood-plates are used is that they cause pressure atrophy These advantages are (1) the rapidity with which they can be inserted, Dr Senn claiming that he can close the opening in ten minutes, (2) the certainty with which they and rapidly inserted, (2) that will keep the serous approximate the serous surfaces and retain them in

Totlet —Remove the blood-clots and escaped conis exposed on the peritoneal side of the bowel shall tents of the viscera with a sponge, wash out the pass through to the mucous surface, (4) that there abdomen with a solution of boric acid until such time as it returns clean from the external wound, replace the bowel as near the normal position as possible, fear there is still remaining foreign matter, it would be better to put in a Mikulicz drainage than to lose much time in trying to cleanse the abdomen and producing a great degree of shock from which the patient cannot rally Above all things avoid pro-

THE EFFECT OF OPIUM ON THE UNBORN CHILD BY C E RUTH, MD. OF MUSCATINE TOWA

Opium is at once one of the oldest and most useful of drugs, as well as one of the most potent agenments are (a) in longitudinal and small transverse cies for harm Its well-known capacity for relieving wounds, a double row of continuous sutures with a pain of almost every variety and grade of severity round (Czerny) needle, the first approximating the has resulted in its almost unrestricted use where the mucosa, and the second the serosa, the latter cover- relief of pain is a prominent indication in the treating the first from sight, (b) in large transverse wounds ment of disease Its property of relaxing both volthe Lembert suture should be used The first can be untary and involuntary muscular fibres, as well as the relief from pain, has resulted in its employment very largely in threatened premature deliveries

But there are at times contra-indications to its use cause pressure atrophy, and the serosa unites in from and limitations in its utility, especially its remote eftwenty-four to thirty-six hours, as shown by e, peri-fects These we too frequently lose sight of or disments on animals, and in my first case The contin regard Authorities lay great stress upon care in the uous suture exposed on the serous surface is not administration of opium to very young children, but

where can be found anything in regard to its effects on the unborn child when administered to the mother? We are told that Too of a grain of opium has produced convulsions in children, and death by convulsions has been produced by very minute doses, also that the very young child is proportionately much more susceptible to the action of opium than the adult, but is this susceptibility just developed at birth or does it exist before? I think it exists before birth, and that it is as strongly marked as it is after delivery, and in the absence of the slightest evidence to the contrary will proceed to furnish the evidence for my views, which are based on evidence elicited from observation of the effect upon the unborn child of the administration of large doses of opium to pregnant women for painful neuralgic affections, including gastralgia, and in threatened premature labor The question would be immediately asked, what evidence could you obtain of any effect upon the unborn child? We are told that opium produces convulsions and death by convulsions in young children, then, may not the unborn child have convulsions when we overload the blood circulating to its unstable nervous system with a poison whose characteristic effect, in but a few hours at least, in case birth should take place, is conceded to be the production of convulsions?

In case convulsions do occur in utero, have we any possible way of determining the fact? Given a case of advanced pregnancy in which the physician is administering large doses of an opiate to the mother, and she begins to complain of tremendously violent motions of the child, such as she never knew before, and the physician, by placing his hand on the abdomen, detects motions of the child apparently many times more violent than usual, and so severe as to cause the mother to scream aloud in agony and say the movements are unbearable—this is repeated in numerous cases, and he then remembers the characteristic effect of the drug on young children, then he finds that these powerful motions in each case accompany the full effect on the mother of the administration of large doses of opium, it seems to me we are very slow in reasoning from cause to effect if we do not come pretty soon to some opinion in regard Do we get a sufficient amount of to their relation opium into the mother's circulation in administering full medical doses to her to send a proportion large enough to the child to produce an effect on the child in utero that Top of a grain has been known to produce on the child soon after delivery, provided they are equally susceptible in the two states? Estimating the weight of the mother at 120 lbs, and the child at 6 lbs, we have the child near birth representing about 20 of the weight, and if we give opin gr iv, at once or in divided doses near together, we have 1 gr of opium for the child's proportion of the gr 1v Tho of a grain may produce convulsions in a young child after birth, may we not justly conclude that & of a grain is very liable to produce the same result in the unborn child, especially when it is substantiated by such evidence as previously mentioned?

If the child receives through the mother a much larger quantity than we would think of giving it after

birth, should we not carefully consider the possibility of producing convulsions and death in the unborn babe by administering anything like full doses of an opiate to the mother? The proportion of opium which is the child's share being so large, of course we must conclude that unborn children are daily getting poisonous doses of opium. In the prevention of abortion most authorities recommend opium as the sheet-anchor, but those of us who have used it for that purpose know too well how seldom it has given satisfaction in preventing premature delivery

Let us consider for a moment, in each threatened abortion case, the possibility of producing the death of the fœtus, and certain abortion following the use of the very remedy we are using to prevent the same We certainly have no reason to believe that the in creased susceptibility of the child to the action of opium is just developed at birth, but, on the contrary, have good reason for believing that it is still more strongly marked in early pregnancy, when we know that the number of abortions occurring during the administration of opium for their prevention is In my practice the number of abortions very great occurring during its administration is as great as with rest in the recumbent position with the hips elevated, etc, without the use of opium

I conclude that opium will not prevent abortion, that it may be and probably often is an important factor in aiding or rendering more certain the completion of an already threatened abortion by causing

convulsions in or death of the child

When opium is administered to the mother for other painful affections, when there is no threatened premature delivery, is the death of the fœtus as fre quent as the sized dose would lead us to suppose? Bartholow says that opium causes death through pa ralysis of the muscles of respiration, thereby depriving the patient of the amount of oxygen necessary to sustain life, and sometimes, he says, death is caused by paralysis of the heart Anyone can at once see that death by paralysis of the heart is the only one of these methods applicable to the unborn child, and that for that reason alone death in utero does not occur more frequently than it does from administra tion of opium to the mother, for as long as the mother, who is least susceptible to its action, still continues to breathe, oxygen will be supplied to the child if its heart still continues to beat of the fœtus has not the resistance to overcome in the lungs, by want of oxygenation of the blood, which the child has after birth This, then, will account for the small number of deaths from administering opium to pregnant women when labor is not threatened or in progress, and will also account for the relaxed con dition and feeble hold upon life that children have when born while the mother is considerably under the influence of an opiate For, the moment a child is born, whose blood is already charged with opium, so soon do the influences of paralysis of the muscles of respiration manifest themselves, rendering the respiratory efforts feeble or entirely absent, and greatly lessening the child's chances for an independent existence

December 12, 1887

CYSTIC KIDNEY AND OVARIAN CYST IN THE SAME OVARIOTOMY AND RECOVERY INDIVIDUAL

> BY THOMAS W KAY, MD, SURGEON TO THE JOHONNITIS HOSPITAL, DETREUT, SYRIA

Répéka, a virgin, 15 years of age, of Armenian parentage, was brought to me, July 8, 1887, from Adana, with the following history From the first appearance of her menses till five months previous to her visit to me, the menstruation had been free and regular, and with but little discomfort. At that time she was confined to her bed with neuralgic pain in the right ovarian region After several days of a scanty flow of menses the pain left, but returned with ticed a swelling in the right inguinal region, which was only slightly less in size than at present Since time is greatly increased at the menstrual period, radiating from the swelling over the whole abdomen Three months ago she was aspirated by a physician and nearly two tumblerfuls of watery fluid drawn off The fluid did not change its color, and gave no pre cipitate on boiling The aspiration diminished the size of the tumor, but only for a few days

On examination I found an uneven, slightly flattened, oblong tumor, as large as two fists, situated in the right inguinal region. It gave no sense of fluctuation and was very slightly movable A small scar over it showed the point where the aspirator needle had been inserted By vaginal examination the uterus was found of natural size, freely movable, and occu-The left ovary was not pying a normal position enlarged, but the right one could not be distinctly

made out from the vagina

Though there were serious doubts about the case being an ovarian tumor, I decided to perform laparotomy and be prepared for ovariotomy if necessary After several days of preparatory treatment, I operated under all antiseptic precautions, except the spray On opening the abdominal cavity I found symptoms of a previous peritonitis, the omentum being adherent to the intestines in many places The slightly movable tumor was covered by the intestines, and unnecessary suffering to the patient proved to be the right kidney, enlarged and displaced It was probably cystic, but that could not be clearly made out, the intestines and mesentery being adheraspirated, which was probably the cause of the pentonitis Below this was found a cystic ovary as large was bound down by inflammatory material cyst was a large as a hen's egg, and there were several has been involved smaller ones The left ovary was normal in size and After applying a double of healthy appearance ligature the ovary, with the end of the tube, was removed and the abdominal wound closed, being then dressed with iodoform and antiseptic cotton The well, having had her menses without any pain

This I believe is the first ovariotomy that has been performed in Palestine or Syria

Ovarian tumors among Eastern women are very rare, this being the only one that has come under my notice during a five years' residence

MEDICAL PROGRESS.

THE USE OF THE VAGINAL TAMPON IN THE TREAT-MENT OF CERTAIN EFFECTS FOLLOWING PELVIC IN-FLAMMATIONS -In an article on this subject, read the menses, after forty days, at which time she no-before the Alumni Association of the Woman's Hospital of New York, DR T A EMMET says

Under what conditions are we likely to obtain the then her menses have been very irregular and scant, best results from the use of the hot-water vaginal inand the pain which is present, more or less, all the jections, and when might we expect a good result from the uniform pressure which will be exerted by properly tamponing the vagina? No other mode of treatment yet known can accomplish so much as is gained by the use of the hot-water vaginal injections in all acute pelvic inflammations The hot water acts as a poultice in exciting contraction of the arterial capillanes Its continued use can diminish the circulation in the parts with which it is brought in contact, as is done in the hands and arms of a washerwoman while in the exercise of her vocation Nearly thirty years ago I recognized the fact that the reaction from a continued application of heat was contraction in the muscular coats of the arteries, and hence its application and value in lessening the supply of blood going to the seat of an acute inflammation The use of the hot-water injection is invaluable in the treatment of all stages of inflammation involving the cellular or connective tissues of the pelvis, in lymphangitis, in phlebitis, and in the early stages of On the other hand, the vaginal pelvic peritonitis tampon, in my experience, has only been beneficial after all acute symptoms have subsided If this one feature is not recognized as a cardinal point, the indiscriminate use of this means of treatment will always be attended by unsatisfactory results, and with much

The only class of cases in the treatment of which I have derived any special benefit from the use of the vaginal tampon has been where I have supposed the ent to its anterior surface. It had undoubtedly been blood-vessels had degenerated into a varicose condition, and where this state of the veins has been brought about, as I have shown, from the effects of as an apple, to which the end of the Fallopian tube local peritonitis with adhesions, from the loss of the One connective tissue, and from injury where the fascia

Let us now consider the use of the tampon in the condition I have described as being the one fitted for its action I have laid down the rule that its use can accomplish no good, but may do much harm, so long as any inflammatory symptoms can be detected girl made an uninterrupted recovery, and in three We must trust to the use of the thermometer to show weeks left the hospital to make a pilgrimage to Jeru- the absence of an elevated temperature in the pelvis, One month later she came to see me on her and to the want of other symptoms indicative of existway to Adana and reported that she was entirely inginflammation. In the absence of other symptoms we must exclude to a great extent the presence of pain

on pressure as an evidence of active inflammation, its chief value then being but an indication of the complished unless these diverticula are destroyed manner in which the tampon should be applied

Where adhesions have formed and the natural elasticity of the tissues has been impaired, the introduction of the speculum, or pressure made with the finger at certain points, must give rise to more or Traction is thus made through the connective tissue on the peritoneum and along some shortened line of adhesion But we are to be all the more careful when pain does exist under these circumstances, through fear of setting up a fresh attack of peritonitis The most important point that we have to consider is to ascertain, if possible, the modus oper and of the tampon, for only by the possession of this knowledge can we determine upon the fit subjects for its application Experience certainly teaches ing the tampon that by the use of hot-water vaginal injections contraction of the arteries is excited, and that these injections are most useful in active inflammation the same means we have ascertained that the tampon does positive harm when not indicated, acting as a source of irritation so long as any acute inflammation exists, it does not lessen circulation through the arteries, as their coats are not sufficiently compressible

We therefore can draw but one conclusion, and in doing so we reach the point that the tampon acts mechanically, by compressing the dilated veins and by lifting the uterus to its natural position in the pelvis, so that the circulation between the arteries and the veins may be equalized If the floor of the pelvis has been injured in childbirth, one or both agents may have to be employed to prepare the woman for the needed surgical operation And it is only by the proper execution of this operation that we can restore the fascia and connective tissue in the pelvis to a state of integrity, and thus indirectly give the neces-

sary support to the vessels

But we have a different condition to deal with in treating the effects of a local peritonitis As soon as the adhesions have been separated by the steady pressure of the tampon the pelvic tissues begin to And as the prolapse is corrected regain their tone by the use of the tampon, and the uterus is steadily maintained in its natural position, the smaller veins are able to regain their natural and tortuous course with the improved condition of the connective tissue So far in the treatment of a case the use of the tampon is most satisfactory, but as we advance the prog- is easy to tampon so that the uterus will be lifted with ress becomes slower We have at last reached the out making direct pressure The tampon should be point where the permanency of our previous success | placed so as to make as little direct pressure to the left in the treatment of the case must rest upon our being as possible along the course of the rectum. After the able to effect a radical change in the condition of the introduction of a sufficient amount of cotton we are to degenerated venous diverticula But it is just in this pass the index finger carefully over every portion to condition where I believe we gain the chief advan- be certain that it is uniformly placed and to smooth tage in the use of the vaginal tampon not, however, be misled by expecting too much, and is properly done it is possible, from the coherency of we must realize that we can only gain permanent good through use of the agent after a long and tedious application, which may extend over the course of months Moreover, the patient must be, as a rule, favorably situated in a hospital for receiving the treatment, and the operator is only able to do full justice efforts to miscarry The first is to keep the uterus, to the patient in proportion to his experience

I am unable to understand how anything is acthrough the long, steady, and uniform pressure which is maintained by the tampon when properly applied It is impossible to suppose that these degenerated vessels ever could regain their tone A certain amount of shrinkage doubtless takes place after they have been for a long time kept from being over-dis-But the continued pressure exerted by the tampon is but the application of a principle which has been long employed in general surgery. It is reasonable to suppose, therefore, that the contents of these vessels become gradually organized, more or less adhesive inflammation is excited by pressure, and eventually the tract throughout is obliterated

As to the material for and the method of introduc-The best material is the cleanest quality of cotton wool as sold in the shops and put up in rolls For the tampon I prepared a number of pieces of cotton of about the width and thickness of I then made a ball of each by turning four fingers the four corners or edges together, and while grasping these I thoroughly smeared the outer surface with Each ball was then of about the size of an vaseline English walnut, and kept its shape as it was packed loosely into a tin box for use It was found advisable to have these balls of cotton as nearly uniform as possible and of about the size that I have indicated

On beginning the operation it is sometimes necessary to place the patient on the knees and chest before the uterus can be replaced Then several balls are to be introduced and placed at a point where the uterus can be held by means of the finger while the patient is turning upon her back already stated my reasons for preferring this position in introducing the tampon One ball of cotton after another should be placed in the vagina and passed closely along the index finger of the other hand, which is engaged in pressing back the permeum and in holding up the uterus or that portion of the tam pon already introduced If one part of the vagina is more sensitive than another we must learn to "humor" it by making less direct pressure until tol erance becomes established When the sensitiveness is situated in the neighborhood of one of the broad ligaments we must pack the cotton on the opposite If the inflam side of the cervix to act as a crutch mation is chiefly about the utero-sacral ligaments, it We should down the entire surface When this "finishing off" the cotton and vaseline, to pack but a portion of the vagina It may be but the upper part, or to one side, and it is likely to remain in position

There are two practical points in the application which, if not carried out carefully, will cause all our throughout the whole course of treatment, as nearly as possible in its natural position and at the same plane in the pelvis The other is to place the fresh tampon without delay after the other has been re-I have been in the habit of renewing the tampon daily for the patients in my private hospital But if it could be kept deodorized, the longer it remained undisturbed the more thoroughly would both portions are to be removed of these indications be met in practice

The best instrument for removing the cotton is a piece of whalebone with a rough screw cut in the end, a simple device for the application of which we are indebted to the late Dr Sims This is easily passed alongside of the finger and twisted into one It is well to leave that part portion after another directly under the uterus until the last, so that the finger may be slipped beneath the cervix, at the proper moment, to hold it in place until the fresh tampon can be introduced To facilitate this, everything should be prepared beforehand It is very evident if the uterus is allowed to prolapse, that just in proportion as it does so the circulation must be disturbed, and that if there is any advantage to be gained from maintaining a steady and uniform pressone Therefore there should be no unnecessary delay in returning the tampon, as the blood begins again to rapidly dilate the vessels as soon as the pressure is removed

A serious drawback to the satisfactory progress to be gained by this mode of treatment is the recurrence of the menstrual period, when the use of the tampon has to be discontinued Just before the period is ex- most indefinitely duce one of the rubber rings which I have already the introduction of the finger between it and the vaginal wall at any point an inch in diameter, and so long as the patient remains in the recumbent position their broad surface offers a fair substitute for the tampon both in exerting a direct pressure upon the larger vessels and by taking up the slack in pelvic tissues As soon as the flow has ceased I have a large hot-water vaginal injection administered, and then apply the tampon as before in the continued treatment of the case -N Y Medical Journal, February 18, 1888

subject, says

The opinion most widely prevailing at the present of the astragalus flesh, and more especially to beef The results obbeef prepared in a certain and most excellent man- used ever we may think of the theories and methods of but a small portion having been absorbed

chopped finely, seasoned to taste, and made into little cakes, which are eaten raw or slightly browned on the gridiron It may be taken in the form of rare beefsteak broiled in its own fat, or as very rare roast beef Other methods of cooking are to be prohibited The meat is to be as juicy as possible, and fibrous

Very often one can be satisfied with the use of butcher's meat, raw or cooked as above Sometimes, however, whether from partial failure of digestive powers or other conditions necessitating reduction in bulk without loss of nutritive material, or suggesting conservation of the energy that would be expended in digestion, it becomes necessary to resort to special methods of preparation The meat powders prepared by various pharmacists, more especially for forced feeding, here render valuable aid By cutting boiled beef into fine pieces, drying by means of a water bath, and grinding in a coffee mill with the teeth set closely, an excellent meat powder may be made in the kitchen (Dujardin-Beaumetz)

The preparation from which Cohen has seen the ure, it must be, as nearly as possible, a continuous greatest benefit, and which he is in the habit of most frequently prescribing, is beef peptonoids from improvement in the process of manufacturing, rendering it more palatable, or from decrease in the fastidiousness of patients, there has not recently been the same difficulty in getting patients to persevere in the use of it that was experienced in former years

The methods of administration may be varied al-It may be added to soups and pected I remove the tampon and immediately intro- broths, to milk punch, egg-nogg, etc., taken in warm or cold water, or made into a paste with milk or referred to, and one of a sufficient size to admit of water and spread upon bread Beginning with a teaspoonful three or four times a day, the amount is These rings are about 34 of to be increased, as soon as the preferable method of administration is determined upon, to a tablespoonful It is preferably given among the suppleor more mentary articles of diet, between meals - Dietetic Gazette, January, 1888

POISONING FROM BORIC ACID, IN SURGICAL PRAC-TICE -DR SPENCER, of St Paul, reports the follow-A short time since a woman was admitted ing case to the City Hospital with syphilitic necrosis, and caries of the bones forming the ankle-joint October MEAT IN PHTHISIS - COHEN, in a paper on this 2, he removed by scooping, scraping, etc., parts of the lower ends of the tibia and fibula, and nearly all The sinuses in the soft parts time assigns the first rank as an aliment in phthisis to about the joints were scraped as clean as possible, the cavity was washed out with a weak bichloride tained by certain individuals, who devote themselves solution, and packed with large clystals of boric to the treatment of disease by an exclusive diet of acid, probably something over half an ounce being Although the wound was very foul smelling ner, conjoined with lavatory potations of hot water at the time of operation, it was left undressed for a to prepare the digestive canal for the reception and week and was then found nearly free from odor disposition of the aliment, cannot be ignored, what- Most of the acid was still undissolved in the cavity, the practitioners in question. Without confining washed out and dressed in the same way as before, themselves to beef, scientific physicians are justified and left for another week. During this time, fourin giving it the first rank. It should be taken at least teen days, her health, appetite, and general conditwice daily, three times if possible It may be eaten tion were good She then began to lose her appetite, raw, as it comes from the butcher, or it may be and in a short time had nausea and vomiting, which grew progressively worse, so that, finally, nothing could be retained by the stomach Lime water, counter-irritation, and cold to the epigastrium, morphia, ipecac, and all the various anti-emetics Her other symptoms were restwere used in vain lessness, insomnia, the little sleep she did get being very disturbed, almost constant hiccough, great weakness and emaciation, and a very marked cardiac Although her pulse was very weak, there was none of the compensating rapidity which generally occurs in heart failure She had a rather severe coryza, the conjunctive were very red and inflamed, there was marked inflammation of the fauces and pharyna, some bronchitis, and an acrid discharge Her tongue was red, from the anterior nares glazed, and cracked There was a very wellmarked papular crythema, the papules nearly coalescing over the face, neck, arms, and upper part of These symptoms came on gradually and grew worse for three days, at which time she was very weak, though she had taken considerable nour-The dressing was then changed, ishment by rectuin and the symptoms here noted began to disappear, although it was ten days before she was as well as before they began - Northwestern Lancet, January 15, 1888

TREATMENT OF SYPHILIS -In the issue of the Bulletin Gén de Therapeutique, of October 30, is a useful paper on the treatment of syphilis, by Prof As a representative of the more con-VERNEUIL servative of French surgeons, Verneuil speaks with authority on such topics The conclusions at which he arrives harmonize with the opinions most gener-He maintains the superiority of mercury As respects the diagnostic value of the two agentsiodides and mercury—he never decides the question of specific lesion or not, except from the results of a In three examples of old syphitrial of mercury loma of the testicle—cited for illustration—the iodide of potassium in massive doses failed to disperse the tumor, but mercurial treatment effected a cure in a few weeks, thus demonstrating the nature of the neoplasm

Professor Verneuil does not advocate the huge doses of iodide of potassium now in vogue-2 to 3 grams (30 to 45 grains) per day being his maximum-except in cases of rapidly destructive ulcerations of the nares, veil of the palate, and similar lesions, and even then in quantity not exceeding 75 He has never favored the or 96 grains per diem conjoint administration of mercury and iodides prefers to give mercury by itself, and associated with remedies to improve the general state of the patient He has occasionally made use of the combination of these remedies in slowly developing secondary or tertiary accidents when mercury does not act well, Under such circumor has not been given at all stances he prescribes in the simplest way 3/4 grain of protoiodide of mercury and 15 5 grains of potassium

10dide Mercurial frictions, although in some cases acting energetically, do not commend themselves to his When he has employed munction, he Lancet, January 14, 1888 judgment

has not dispensed with the internal administration of the protoiodide or some other mercurial, in small Nor has he practised the method of subcu doses taneous injection of mercurials, which often cures, apparently, in twenty to thirty days He holds that the most certain curative results are obtained by the slow saturation of the organism as effected by the stomachal administration rather than by sudden impression

For the local treatment of syphilitic ulcerations, mucous patches, etc , the early manifestations of the constitutional state, he employs nitrate of silver, or chloral solutions, topically, in conjunction with the use of mercury internally -American Journal of the Medical Sciences, January, 1888

TOBACCO AMBI YOPIA --- MR EDGAR A BROWNE, in an article on this subject, draws the following conclusions

The optic nerve resembles a sensory tract of the spinal cord, consists of two tracts, of which the central has a special affinity for tobacco, while other drugs, e g, quinine will leave it unaffected

Tobacco is the essential agent in causing an avial neuritis, which does not in ordinary cases tend to spread to the nerve-fibres coming from the pen pheral retina

3 As a rule patients apply in the early stage of neuritis, and complete recovery may be expected without any treatment except entire cessation of smoking

4 When recovery is established, moderate smok

ing is not injurious

5 Although it would be absurd to suppose to bacco is the only agent capable of causing avial neuritis, no other has yet been substantiated in a series of cases arising in strictly nor-smokers

6 Besides tobacco a special condition is required to precipitate an attack, alcohol, diabetes, excessive venery, starvation, mental shock, or distress, are the most common auxiliaries

7 In some persons a special tendency to degen eration (sclerosis or atrophy) exists hereditarily, to these tobacco is especially injurious - Liverpool Medico-Chirurg Journal, January, 1888

TYPHOID BACILLI AND BOILING WATER -In order to test the destructive power of boiling water on typhoid bacilli, DR VILCHUR, of St Petersburg, made a number of pure cultures in broth, keeping them in a thermostat for two days at a temperature of about 92° F, and then mixed them with known proportions of boiling water, immediately afterward The results showed sowing the mixtures in jelly that, when the volume of boiling water equalled that of the culture, the bacilli were partially but not When double the volume of boiling water was used, the bacilli were all killed wholly destroyed From experiments with typhoid stools, he found that all the bacilli, however numerous, were invariably destroyed by the addition of a volume of boiling water equal to four times that of the stool way he suggests it will be easy to disinfect with certainty all the dejections of typhoid patients -

THE

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address although not necessarily to be published All communications in regard to editorial work should be addressed to the Editor

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MEDICAL LEGISLATION AGAIN

In this Journal for January 28, 1838, we called the attention of our readers to the necessity, or at least the desirability, of more uniformity in the laws enacted for the regulation of medical education and practice in the several States, by citing some of the diversities at present existing and the inconveniences to which they must subject practitioners in moving from one State to another In alluding to the medical registration law of Pennsylvania, we carelessly and erroneously mentioned a State Board for the execution of the law, when the law provides no State Board, but requires the registration of practitioners to be made by the prothonotaries of the several counties An editorial in the Philadelphia Med ical Times, of February 15, 1888, properly reminded us of this error, and then proceeds to pervert the whole tenor of our article It calls our simple illustration of the working of that feature of the Pennsylvania law which requires all graduates from colleges outside of that State to have their qualification endorsed by the faculty of some medical college in that State, before they could be registered as legal practitioners, as uncomplimentary, and yet admits its entire correctness

It proceeds further to commend the law on the plea that the possession of a diploma from a legally established medical college, either in this or foreign the person actually had all the qualifications neces-

medical college in Pennsylvania The correctness of this plea few will be inclined to deny, but, unfortunately, the inhabitants of the world outside of Pennsylvania will be so incredulous or uncharitable as to suspect that even the faculties of the medical colleges in Pennsylvania may award the diploma to some of their own students who are not possessed of all the And if they should, how does qualifications desired the Pennsylvania law protect her own citizens from such? As we observed in our previous mention of this subject, the legislators of New York State have already returned the compliment by enacting a law that makes it necessary for graduates from medical colleges outside of that State (not excepting those in Pennsylvania) to apply to a medical college Faculty in New York for special endorsement before they can become legal practitioners in that State Now let Massachusetts enact a similar statute, and if any graduate in Pennsylvania, or New York, or elsewhere, wishes to practice in the old Bay State, let him get the proper endorsement in Boston the States in the Mississippi Valley will not be slow in adopting the fashion, and the usually large number of graduates from the colleges of New England, New York and Pennsylvania who wish to settle in the West and South must submit their credentials and qualifications to the examination and approval of a medical college faculty in whatever State they propose to practice

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The specially ludicrous feature in this kind of legislation is the effort to protect the people of each State from the presumably unqualified graduates from the schools of other States, while they make no provision for protection from possible unqualified graduates from schools within their own boundaries, the practical result of which, would be to keep all the poorer medical students who barely succeed in graduating at the lower margin of the scale within the State where they graduate, through fear of failure to pass review by another college faculty elsewhere, while those most highly qualified, being well assured of their ability to pass review anywhere, would freely migrate from their own to other States or Territories wherever choice locations were to be found little less amusing is the assertion of the Medical Times that we evidently believe other examinations or safeguards than medical college graduation are not necessary to secure for the people a properly educated medical profession, when we have for fifty countries, could not be safely regarded as proof that years, on every suitable occasion, advocated the establishment of a properly constituted Board of Exsary for a safe practitioner of medicine, unless he ob- aminers in each State, independent of all colleges or tained a special endorsement by the faculty of some institutions for medical instruction, by whom all persons proposing to study medicine should be examined courage such infringement of the patient's rights by concerning their general education, and admit to registration as medical students only such as furnish full proof of good English education, including mathematics, physics, the natural sciences, and in addition the elements of the Latin language, and by whom all persons proposing to enter upon the practice of medicine in any of its departments within the State should be fully examined in all the branches of medicine, both scientific and practical, and grant licenses or admit to registration only those who are found lows on the relations of the profession to the public qualified, without any regard to college diplomas And we have repeatedly advocated the same in the columns of The Journal, as our editorial confrère might have learned by looking over its editorial columns even during the preceding two months

The medical legislation of North Carolina, Alabama, Virginia, and Minnesota, is already placed fairly on the proper basis, only needing some additional details, and we are hoping that the Committee appointed by the Section of State Medicine of the American Medical Association at the last annual meeting, will report such form of law as will receive the sanction of the medical profession generally, and will become the basis of the medical legislation in all the States, thereby securing substantial uniformity of laws regulating medical education and practice, instead of the present inefficient and too frequently contradictory enactments of the several States

THE RELATIONS OF THE MEDICAL PROFESSION TO THE PUBLIC

There seems to be a growing tendency on the part of the newspapers to gratify a morbid public curiosity and craving for harrowing and sickening details, however much individuals may suffer thereby, or however innocent the individual may be of having committed wrong or omitted right doing And with this tendency there is another, almost as vicious, of the newspaper's presuming on the ignorance of intelligent readers, and neglecting to take measures to In short, newspaper policy cure its own ignorance seems to be tending more and more to a reversal of the Golden Rule-which is just as good to-day as it was two thousand years ago-and one may sum it up as "Do unto others as you would not be done by "

medical profession to the public? So much physicians should see to it that when the public press newspaper notice may be much less prevalent in seeks to encroach upon the rights of their patients— Philadelphia than in some other localities, the hope and patients have rights—they should not aid or en- is to be indulged that it may eventually become en

violating confidences As the press has no right to pry into the personal maladies of a person and furnish them to the public, the physician, as a matter of justice to the patient, has no right to aid the press in any way in making unjustifiable disclosures

And there is an ethical aspect of the question concluding his annual address before the Philadelphia County Medical Society, January, 1888, the President, Dr J Solis-Cohen commented as fol

"It is to be deplored, on the score of professional ethics, that mention of some of our scientific work is occasionally noted unofficially in the public newspapers, despite the express interdiction in our By-Whether this prohibitory clause be deemed judicious or not, it is plainly the duty of all members to accede to its behests Those who disapprove of it should present their reasons for doing so in full meeting and should endeavor to have it rescinded They have neither the right to ignore it on the one hand, nor the right to disobey it on the other On several occasions when reporters of the daily press have been present at our meetings they have assured me that they were present on invitation of a member, that they had no desire to intrude, and had believed that their presence would be agreeable to This subject leads me to offer a few the Society remarks upon certain relations of the profession to While there is no reason to doubt that the public much of the individual editorial advertisement of subjects discussed or to be discussed at societies, or of operations performed or to be performed in public places or in private, is due to officiousness on the part of a student, a follower, an attendant or a pa tient, there is equally good reason to believe that most of it is courted, directly or indirectly, by the Of this fact I have been individual most interested amply assured by newspaper men who have been my own patients, and to whom I have put the ques I have been assured, further, that it tion direct could be taken for granted that little matter of per sonal medical importance ever gains access to the papers without the knowledge of those most infi On the other hand, it is equally mately concerned true that matters of some immediate momentary interest to the public do not always reach the news papers, even when passing through the mails in hun But what has this to do with the relations of the dreds of notices openly printed upon postal cards

"While it is gratifying to believe that this itch after

The disease at present is in tirely extinguished great measure a mere matter of taste-quite poor taste, according to the ethics of the Philadelphia County Medical Society

"One custom in which the ordinary conduct of the physicians of Philadelphia is to be commended, in their relations to the public, consists in their unwillingness to cater to gratifications of the morbid appetite of the newspaper public for tattle as to the nature of the diseases with which some of their distinguished patients may be afflicted, and as to the prospects of their death or survival Propriety indicates that such inquiries should be referred to the patient if he be in a responsible condition, or, if otherwise, to that member of the family upon whom the responsibility has devolved The confidential relations of a patient to his physician should remain undisturbed even when the patient is no longer competent to withdraw his confidence, and no communications presumptively disagreeable to him in his senses, should be furnished for press gossip without the consent of those who are most immediately in-The pleasure derived by an invalid from the daily perusal of his favorite newspaper is often exceedingly great, far greater than when, under the tuberculous animals Methods of preventing them press of affairs, he read chiefly headings and tele-He reads it much more thoroughly, sometimes even to the advertisements As he reads day by day, of what is going on in the great world outside, his little world of bed room life seems somewhat less constricted Let us avoid curtailing his gratification by acts of ours If his newspaper cannot be taken up without a dread of seeing some paragraph discussing the nature of his malady and the prospects of his early demise, this innocent source of enjoyment is poisoned for him rest content with a mutilated paper, the very gaps in which are repulsively suggestive, or he must consent to have it read to him, or give it up altogether and thus become deprived of taking interest in many things outside of his own illness It is hard enough for him to fear or to know that his malady is incurable, without having the fact forced upon his attention at some comparatively happy moment when it is out of his thoughts Harder still, perhaps, to steel himself into indifference

"It is unnecessary to mention examples must be familiar enough In some instances there has been abundant reason to believe that death has been hastened by thoughtless comments in newspapers Shall the individual always be sacrificed to the multitude? It has been stated that occasionally, when Evolution of local tuberculoses potentates or very wealthy individuals have been the tive of the bacilli of Koch

subjects of these items, special copies of newspapers have been printed for their use, in which the objectionable personal passages of the general edition have been replaced with other matter But there is little hope that the sores of the afflicted shall not be exposed to public gaze, unless their own physicians protect them by the charity of their reticence public maw is so rapacious, that the average newspaper man dares not deprive it of any tidbit, however unfit the food, and, worse than the cannibal who sometimes kills the sick man that his people may devour him, the editor sometimes delivers the sick man to his readers that they may devour him even while he is dying "

HUMAN AND ANIMAL TUBERCULOSIS

The announcement and programme of a Congress of Physicians and Veterinarians to be held in Paris on July 25-31, for the study of human and animal tuberculosis, have been received The Committee on organization has selected the following questions for discussion

- I The dangers of the use of meat and milk of
- The human races, animal species, organic media considered from the point of view of their aptitude to tuberculosis
- 3 The ways of introduction and propagation of the tuberculous virus in the economy lactic measures
- 4 The early diagnosis of tuberculosis in man and animals

In addition to these subjects the Committee desires to direct special attention to the following subjects

Heredity of tuberculosis in man and the different species of animals 2 The contagiosity between man and man, between animals, from animals to man, and vice versa 3 The different modes of evolution of experimental tuberculosis according to the quality and quantity of the virus inoculated 4 Difference in tuberculous affections in different species of animals 5 Methods of distinguishing the lesions caused by the bacillus of Koch, granulations, and inflammations due to different microbes (zooglea, bacteria of contagious pneumonia of swine, aspergilli, etc), to animal parasites, or to 6 Tuberculous lesions complicated foreign bodies by other microbial lesions 7 Mode of formation of giant cells and isolated tuberculous deposits 9 Agents destruc-10 Local and general

means capable of arresting the extension of experimental tuberculosis **I** I The value of surgical therapeutics in tuberculous affections

In addition to these subjects voluntary papers will be received provided they are confined to the sub-Foreign physicians and veteri ject of tuberculosis narians may become members of the Congress by writing to the Treasurer, M G Masson, 120, Boulevard Saint-Germain, enclosing \$2 00 The Secretary-General is Dr Petit, 11, Rue Monge, Paris

INJECTIONS OF ALBUMEN AND ALBUMINURIA

DR PAUL SNYFRS has recently completed a series of experiments undertaken for the purpose of controlling the experiments of Semmola on the pathogenesis of Bright's disease He injected into dogs white of egg diluted with a small quantity of distilled The operations were done by means of a water syringe of double the capacity of the ordinary Pravaz syringe The syringe was carefully disinfected before each experiment, and the quantity of albumen injected varied from 4 to 5 grams per kilogram of the ani-When this quantity is compared with mal's weight the amount of albumen excreted daily by the kidneys in the gravest forms of nephritis, it is seen that the quantity injected into the dogs was incomparably After the animals were greater than that excreted killed the kidneys were examined in the fresh state by congelation, and after the action of osmic acid, absolute alcohol, Muller's fluid, or boiling water Continuous injections during three, six, nine, and twenty-three days never produced glomerulitis certain points albuminous coagula were found, and a little diapedesis on the interior of the capsule no case was there any fatty degeneration of the These facts led Snyers to draw the folepithelium lowing conclusions

- I The albuminous (albuminuric) dyscrasia determined by the injection of egg-albumen is transitory, and ceases within twenty-four hours after the injec-The albumen found in the urine is only the tions It is a useless white of egg that has been injected substance, passes through the organism, and is eliminated naturally by the kidneys without producing any lesion
- 2 Histological examination of the kidneys shows no sign of any lesion of these organs, even after the injections have been carried on for thirty days
- 3 The fact that injections of white of egg cause an albuminuma that is absolutely transient, and withclusion injections of white of egg are incapable of is "U S Marine Hospital Service, New York, N Y"

producing either the lesions of nephritis, or a patho_ logical albuminuria

These experiments, recorded in the Bulletin de l' Academie royale de Médecine de Belgique, absolutely contradict the experiments and conclusions of Semmola, with regard to the causation of a clinical picture of Bright's disease by subcutaneous injections of white of egg

STHOPHANTHUS IN METRORRHAGIA -DR V POU I ET, of Plancher-les-Mines, calls attention in the Gazette de Gynecologie, of February 13, 1888, to the use of strophanthus in metrorrhagia of the menopause and that of very fleshy women during the age of fecund-As is well-known, ergot is very useful in the first class of cases, but has little or no effect in the But Poulet has used strophanthus in both second classes of cases for almost three years used the drug in substance, 5 centig of the recently powdered seed with a sufficient quantity of honey to Two pills are taken the first day, make one pill three the second, and four a day after that, if necessary Poulet claims, also, that he has had exceptionally good results from the use of strophanthus in typhoid fever, and will soon publish his cases

"THE MEDICAL JUDISPRUDENCE OF INEBRIETY," a volume of 200 pages, is announced as soon to appear from the press of the Medico-Legal Journal, No 57 Broadway, New York, N Y It is to contain the large number of papers presented and discussed by members of the New York Medico-Legal Society, and others, touching the relations of jurisprudence The price of the volume in cloth is and inebriety to be 60 cts, and in paper, 30 cts, orders for which may be addressed to the Medico Legal Journal, New York

TRANSACTIONS OF THE NINTH INTERNATIONAL MEDICAL CONGRESS —We have reliable information that the publication of the Transactions of the recent Medical Congress at Washington, is progressing satisfactorily, with the strong probability that at least three volumes will be ready for delivery early in May The members of the Committee of Publica tion are pushing the work as vigorously as possible

THE ADDRESS OF S T ARMSTRONG, M D, U S Marine Hospital Service, Secretary of the Section of State Medicine, of the American Medical Association,

SOCIETY PROCEEDINGS.

GYNÆCOLOGICAL SOCIETY OF BOSTON

Stated Meeting, November 10, 1887

WM G WHEELER, MD, IN THE CHAIR

A communication from the President, Dr H M FIELD, was read, in which he resigned his office because his own health and that of members of his family demanded that he should spend the coming winter in a milder climate On motion of Dr L F Warner it was voted that the resignation of the President, Dr H M Field, be accepted, and that the thanks of the Society be given him for his efficient and valuable services in its behalf

PATHOLOGICAL SPECIMENS

DR E C Keller exhibited to the Society the two following specimens which had been removed by her from patients at the New England Hospital

Removal of Ovaries and Tubes for Psosalpinx - Patient, æt 44, had suffered excessive pain since last June and temperature had been high, excessive abdominal tenderness On operation pus was found in the tubes and ovaries Pus had also escaped into the abdominal cavity A fibroid was found on side of uterus opposite to pyosalpinx Re-

Multilocular Fibroid -Patient, æt 45, Case 2 had flooded for two years, recently it had recurred every ten days and had been excessive, patient was blanched and life had become a burden There was A multilocular fibroid was removed and no pain patient made a good recovery

DR A L Norris presented a specimen of

CANCER OF THE STOMACH,

which was especially interesting from its history Patient, æt 76, forty years ago thought that she swallowed a water limpet while drinking water her stomach, and she has suffered much of many doctors in her efforts to get rid of it Dr Norris saw her but recently and made the diagnosis of cancer of the stomach On autopsy such was proved to be the case

DR H O MARCY then read a report of

A YEAR'S EXPERIENCE IN PRIVATE HOSPITAL PRACTICE

Whole number of operations, 81, deaths, 1 toration of the perineum, 11, anterior colporrhaphy, 3, urethral caruncule, 2, curetting endometrium for various causes, 25, operations for the repair of the cerviv uteri, 9, cancer of the uterus, 4, removal of cancer of the breast, 5, laparotomies, 7, Alexander's operation, 1, hernia-radical operation, 2, hemorrhoids, 3, miscellaneous, 9

been in his private hospital a single case of septiceeach important operation, and the room closed for the facts in regard to these growths

spray is not used, as a rule, during operation Surgeon and assistants must be specially clothed, and cleansed by scrubbing with mercuric bichloride and soap even to hair and beard Dr Marcy's method of restoration of the floor of the pelvis in cases of ruptured perineum is somewhat peculiar The portion of the levator ani anterior to the rectum is the part of the muscular structure which has been ruptured, and it is the restoration of the separated, retracted portions which he holds as important to This is best effected by freeing the posterior half of the vaginal muscle from its attachment is easily done by making the parts tense with two fingers in the rectum, splitting the tissues, in considerable degree cicatricial, until the loose connective tissue septum between vagina and rectum is reached The separation is carried to the upper border of the prolapsed vaginal wall and is held forward by an assistant, while the floor of the pelvis is restored by This is best effected by tendon continuous suture the use of a rather large, fully curved needle, the Hagadorn pattern preferred, burying the suture deeply in order to bring together the retracted mus-The detached vaginal portion is carefully adjusted to restore the vaginal opening, and the edges coapted by a fine tendon continuous suture cases of extensive injury, the double pin is used so as to hold firmly at rest the tissues during repair Where there is complete rupture the same operation is advised, after the dissection closing with great care the rectal and then the vaginal side of the triangle

The fatal case was from rupture of a papillomatous cyst of the left broad ligament

DR S N NELSON exhibited two specimens from two of the cases referred to by Dr Marcy

Case I Cancerous Uterus removed by Hysterectomy -This uterus had been repeatedly curetted for the relief of the flooding, until nothing but a shell of the original uterus was left Hysterectomy was decided upon and was done by Dr A Martin, of Berlin, during his recent visit to this city. Sepsis superhas always maintained that the animal remained in vened, but a satisfactory recovery ensued, and the patient was discharged at sixth week

Case 2 Ovarian Tumor consisting of a Single Cist—The principal interest attached to this case was the ectasic type of the vessels of the broad ligament supplying the tumor To guard against hæmorrhage from these vessels Dr Marcy used a double line of sutures with the shoemaker's stitch

DR E W Cushing said that the cases usually called adenoma of the uterus had interested him the In the case reported upon which hysterectomy was done for cancer he had curetted the uterus thoroughly in 1885 for a growth that was then called by competent men a simple adenoma He had at that time prophesied that it would evenually prove to be cancer, and such was the case These cases are constantly appearing which, according to present author-In the entire list of the year's work there has not lines, are simply glandular, but which are really practically malignant The question naturally arises, mia. The walls and floor of his surgery are washed where do the simple glandular changes end and canwith I 1,000 mercuric bichloride solution before cer begin? Schreeder's teachings do not represent Future study an hour subject to the spray of carbolic acid. The upon this point will lead to an earlier recognition of the malignant tendency of these growths and the necessity of radical measures. When an adenoma appears after the climacteric and shows a tendency to bleed freely it is cancer, and hysterectomy should be done.

In cases of repair of the perineum Dr Cushing had been led by experience to depend less upon the pins than upon deep sutures. These sutures should be of catgut, and if they are thoroughly antiseptic they will become organized and cause no trouble.

The question as to what should be done with the flap of vaginal mucous membrane has never been definitely settled. If it is simply left it is likely to become ædematous and tender. Dr Cushing's practice has been to sew this flap to the floor of the vagina. If the suturing is carefully done with fine sutures, no trouble will follow. This method will supersede all others, because in this way all the mucous membrane is saved. This consideration is an important one when we consider that the patient may become pregnant and need all possible material to secure proper dilatation of the vagina.

MONTH OF PREGNANCY

As the opportunity is not often afforded to examine the uterus at an advanced period of pregnancy and as this particular specimen presents several well marked and interesting features. I felt that it would be of interest to place it before the Society. The uterus was removed twenty-four hours after death, in asmuch as I was present at that hour I wished to do so immediately but could not secure the consent of the family. I shall very briefly call attention to the several conditions noticed. The outer surface of the uterus is studded with syphilitic nodes.

DR A P CLARKE said that he had seen Dr Cushing operate for repair of the perineum, and considered it wonderful to save so much tissue

DR E C KELLER asked Dr Marcy in regard to his experience in dilating and curetting the uterus

for relief of dysmenorrhæa

DR MARCY, in closing the discussion, said that he regarded the treatment of endometritis by dilatation and curetting as a gain. If the uterus and cervix are surgically clean the cervix can be forcibly dilated The parts are first thoroughly cleansed by the use of a 1 2,000 hot bichloride solution, and then the cervix is rapidly dilated to a No 25 F Curetting This will admit the curette changes the vascularization of the uterus, in this way it changes the nutrition of the tissues and re-In regard to operations for lieves dysmenorrhœa repair of the perineum Dr Marcy said that this operation was simple, both in its principles and technique, but that as yet there was no settled conviction among The leaders the profession as to the best method of the profession in New York pay no attention to reuniting the muscular fibres of the transversalis perinei, and thus overlook an essential feature of the When a tear of the permeum of any operation magnitude occurs the fibres of this muscle are severed and are retracted to a greater or less extent As long as these muscular bands are left ununited they tend to draw back the posterior vaginal wall and In the operation the muto increase the difficulty cous membrane of the posterior vaginal wall should be thoroughly dissected up and the ends of the transversalis perinei sought for and united by catgut su-Only by doing this can the best results be tures This point in regard to uniting the muscle was overlooked by even Dr Jenks, who originated the method of dissecting up the posterior vaginal He did this only as a protecmucous membrane tion for the damaged parts below Dr Marcy denied that the transversalis perinei is ever histologically absent, as is claimed by some who deny the necessity of reuniting the fibres of that muscle

OBSTETRICAL SOCIETY OF PHILADELPHIA

Stated Meeting, Thursday, December 8, 1887
THE PRESIDENT, T M DRYSDALE, MD, IN THE
CHAIR

(Concluded from page 212)

DR HAMIIL exhibited a

UTFRUS RLMOVED FROM A WOMAN IN THE LAST MONTH OF PREGNANCY

As the opportunity is not often afforded to exam and as this particular specimen presents several well marked and interesting features I felt that it would be of interest to place it before the Society The uterus was removed twenty-four hours after death, in asmuch as I was present at that hour I wished to do so immediately but could not secure the consent of I shall very briefly call attention to the several conditions noticed The outer surface of the uterus is studded with syphilitic nodes The woman had contracted syphilis early in her married life and manifested other marked symptoms of the disease There is also a small cyst of the broad ligament The specimen presents quite markedly the contrac tion ring or ring of Bandl I give both designations advisedly inasmuch as it is not definitely determined whether this ring represents the internal os as Bandl claims, or whether it marks the boundary between the upper and lower uterine segment as Schræder be lieved According to the investigation of McDonald, Muller, Sanger and Lusk this condition does not always exist In three autopsies made by Lusk he failed to find any trace of Bandl's ring Schræder in a frozen specimen found this ring very distinctly but claimed that it was the dividing line between the Bandl holds the upper and lower uterine segment contraction ring of Schreder to be the true internal os and consequently one would expect to find below this ring cervical mucous membrane, whereas, the portion between Bandl's and Muller's ring is covered Bandl explains this by his three hy potheses, I The deciduous membrane is crowded by deciduæ down into the cervix by the weight of the presenting part 2 In primaparas the advancing head strips off the mucous membrane which is replaced by deciduæ That the cervical mucous membrane is transformed into decidual membrane during pregnancy

Another interesting feature that the specimen dem onstrates beautifully, is that condition pointed out by Leopold and Lusk, as seen in their Cæsarean sections, viz the delicate filamentous bands running from the chorion to the deciduæ, which are the atrophied villi of the chorion. The attachment of the placenta is to the posterior wall of the uterus

DR HIRST had seen the frozen section made by Schræder, in 1884, and it was most interesting show ing distinctly the so-called ring of Bandl He did not believe in any one of Bandl's three hypotheses to account for decidual membrane in a place where according to Bandl's theory, cervical mucous membrane should be found The extraordinary diversity in the explanation advanced by Bandl shows plainly enough

the insufficient ground upon which his theory rests atomical facts upon the living subject He had looked for Bandl's ring and had never been able to find that it existed. He is fond of turning in badly presenting more fibrous portion above the true internal os children and has had his hand in the uterus many less for some moments, the compression was always uniform and from all directions He has yet to find any constriction in the region of the so-called Bandl's ring alone He has in several cases observed hourglass contractions, but this was due to continued pressure on one side of the uterus, and consequent loss of contractility of that portion He does not believe that hour-glass contraction ever occurs in uncomplicated labor

Dr Parish remarked that in a Cæsarean section performed by Dr Foster, of Maine, the operator had observed a circular contraction This went to prove Cæsarean section performed by himself no such concircular contraction in a third case operated on by

Dr Allis and himself

DR GITHENS stated that in discussions before the Society in October, 1879, in December, 1879, and in October, 1880, upon the subject of "Hour-glass Contractions of the Uterus," Dr Albert H Smith, Dr R G Curtin and Dr W H Parish had reported instances of prolonged and forcible contractions of a ring of muscular fibre in the uterus above the internal os, the lower and upper segments of the uterus remaining flaccid In Dr Curtin's case Cæsarian section was being performed, the uterus of contraction was seen as well as felt In the other case a placenta or twin fœius was retained in the upper segment of the uterus May not this ring of muscular fibre so contracting be identical with that described by Bandl? In the case reported by A H Smith, the condition lasted for two hours and was relieved by hot-water intra-uterine injection doctor reported the point of contraction as being at up we may make some allowance and consider that it occupied a position near that described by Bandl as the location of the contraction band

child was removed the patient began to show signs of internal hæmorrhage The uterus was examined and found to be much distended An attempt was made to pass the hand in but it was done only with difficulty as there was a powerful contraction in the The body was found distended and lower segment very flaccid, and filled with blood He thought that this case proved that a contraction could occur in

the lower segment

DR HIRST quite agreed with Dr Price in thinking that these cases always arose from pressure He had

preceding remarks, to contraction of the circular DR M PRICE firmly believed in hunting for an-|muscular fibres, but was merely the sharply defined boundary between the upper, thicker and more muscular portion of the uterus and the lower, thinner,

DR HAMILL observed that the patient had formerly He has had it so compressed that it was use- suffered from Graves' disease but had no active symptoms at the time of death. She had died of heart

failure

DR HAMILL presented, also,

A FOUR WEEKS' OVUM ENTIRE WITH THE DECIDUÆ,

He presented this specimen for a two-fold reason 1 On account of its comparative rarity elicit from the members of the Society their views on the after treatment of abortion The expulsion of the deciduæ vera is not as a rule thrown off with the ovum entirely Durhssen says, "from a personal experience with more than 150 cases of abortion in the that such a thing could occur In two cases of service of the Charity of Berlin that the retention of portions of the deciduæ vera is not the exception traction had existed, and likewise there was no such but the rule," and Tarnier says "that ordinarily the uterine deciduæ remains adherent to the uterus" Whether it is safer to leave this in the uterus and allow Nature to throw it off or to remove it at once is the particular point I should like to hear the members For my own part I feel sure that it should be immediately removed As to the manner I shall say nothing

DR HIRST said that when the deciduæ vera is retained as is the rule in early abortions, one of two things happened, the mass either putrified and thus became a source of septic infection, or it became greatly thickened and remained as a foreign body, had not been emptied of the contents and the ring exciting frequent hæmorrhage or constant leucorrheea He always cleaned away any debris left in the uterus

after abortion

DR GOODELL agreed fully with Dr Hirst as to the propriety of removing the retained fragments of the placenta or the membranes, but he had a word to say about the manner of their removal He deemed The the much-vaunted curette, whether sharp or blunt, a very inferior instrument, especially so whenever the the internal os but as he was opposed to the idea of fragments had been retained for several weeks. Not there being any such thing as a contracting ring higher only did the curette bruise and injure the unimplicated portion of the womb, but it tended to glide over the fragment, merely scraping the surface Sometimes, indeed, it would hook up one end of the DR R STEWART had seen a case in which after the fragment and after causing a great and needless flow of blood, would slip off So often had he been disappointed with it, nay even alarmed by the great loss of blood, that he now used either a small fenestrated polypus forceps, when the os was dilated enough to admit it, or a slender handled catch-forceps these instruments the fragment was invariably seized and removed by a twisting movement, while the womb itself sustained no injury whatever It was in fact safer to use these instruments in the womb than to eatch a stone in the bladder with the lithotrite

DR PARISH had seen a number of mistakes made seen good examples of Schreder's contraction ring with the curette. He had been called to a case and in which the ring marked the dividing line between found a woman who had been bleeding for four or the upper and lower segments of the uterus, and was five months Her former attendant had curetted and not at all due, as might be inferred from some of the pronounced the womb empty He and his colleague

dilated and removed a body as large as his two fin- to the abdominal opening, making an artificial anus gers In another case the uterus was curetted by the Dr Agnewhad seen the case and had recommended attending physician and pronounced empty Within immediate operation The woman was a patient of twenty-four hours the patient aborted well illustrate how one may be deceived as to when that Mr Tait had first advised the prehminary punc the uterus is empty when relying on the curette his own practice, after three months if there is no retention he introduces his finger and delivers everything He thinks with Dr Goodell, that something more reliable than the curette must be used to enable one to say that the uterus is empty after abortions in doubtful cases

DR LONGAKER does not interfere before the third month at all unless the patient has decided signs of retention, such as hæmorrhage, patulous os, etc, otherwise it is as a rule safe to conclude that everything has come away During the third, fourth and fifth months retention is very frequent. He thought it surprising what a small portion of placenta would give serious trouble, even small shreds will keep up a very serious hæmorrhage He always removes anything which has been retained and uses the finger and very frequently anæsthetizes the patient

DR R STEWART asked the members of the Society in what proportion of cases they had to interfere He has never used the curette for this purpose and has never failed to remove with forceps of proper The hæmorrhage generally ceased in from twelve to fifteen hours, if not he investigates and usually finds some debris left behind, but is convinced that if there has been no improper interference at the time of the abortion, such cases are exceedingly rare He agrees with Dr Longaker as to the amount of trouble kept up by small pieces of membrane, etc

DR HAMILL also presented

A FŒIUS SHOWING INTRA-UTERINE RACHITIS

This specimen presents a number of anomalies, probably the one most rare is the condition of intrauterine rachitis, you will note the marked rachitis condition of both femurs So far as I am able to find 53 cases having been collected by Schorlan and Graefe This condition of the bones in rachitis may be simulated by the arrest of bony development in those cases of fœtid cretinism occasionally met with The absence of the three fingers and corresponding metacarpal bones would, following the classification of Geoffrey St Halaire, place this among the Hemiteratic class and the subdivision of that class known as Anomalies by Numerical Diminution This form of monstrosity is not met with very The absence of the fibulæ renders the frequently specimen still more rare

DR J PRICE exhibited

A PIECE OF THE LARGE INTESTINE

removed that day by Dr Charles B Penrose patient, a woman, had not had a passage of the bowels reled Sharp's pistol, 30 calibre She had the muzzle for twenty eight days side of uterus and posterior The intestine was hand it slipped from her hold and fired the cartridge, The gut was then resected, a piece twelve inches long removed. The two ends of the gut were then united lobe of the liver, entered the upper third of the kid lobe of the liver, entered the upper third of the liver the liver the lobe of the liver the li in half their circumference and the other half stitched ney, and passing through lodged in the deep mus-

These cases | Dr Bernardy's She is now doing well He believed In ture to relieve the distension in conditions that can not be dealt with by resection He had some letters from Dr McMurtry, of Danville, Ky, who had been called 45 miles into the country to see a physician 26 years old On opening the abdomen he found two perforating ulcers of the cæcum with local pen tonitis He had trimmed the edges of the ulcers and closed with Lembert sutures, irrigation and drainage On the fourth day pulse 92, temperature 99, and patient had complete evacuation of bowels

DR PRICE also exhibited a

PELVIC-BOUND FIBROID

Woman, 37 years old Small Tumor on anterior face of pelvis bound fibroid could almost be picked up through the abdominal walls The R tube con tained blood and the ovary was bound down by ad The R tube and ovary were then tied off, but the L tube and ovary were so imbedded in a mass of large venous sinuses that it would have been dangerous to have interfered with the ovary The tube was removed A clamp was passed around the tumor which had been lifted out of the abdomen and The clamp came off on the the mass was removed Temperature was never above seventeenth day 100°, pulse above 65 In connection with this case he remarked that tubal and ovarian trouble compli cating fibroids was very common Dr Keith had found all the tubes diseased in about all his first 38 cases of hysterectomy In 9 cases he had attempted to remove them but had failed, and finished by hysterectomy He was surprised to find Dr Keith con demning the operation and thought that his statistics explained the matter His mortality in private practice was less than 4 per cent, and in hospital practice more than 15 per cent

PHILADELPHIA COUNTY MEDICAL SOCIETY

Stated Meeting, February 8, 1888 THE PRESIDENT, J SOLIS-COHEN, MD, IN THE CHAIR

DR MORDECAI PRICE read a paper on

A CASE OF NEPHRECTOMY FOR GUNSHOT WOUND

Maggie McG., of Avondale, Chester County, Pa, aged 14 years, white, pale, anæmic girl, was acci dentally shot on Wednesday, Dec 21, 1887, at 9 o'clock in the morning, while handling a four bar of the pistol turned toward the right side, while at The constriction was easily found on the right tempting to raise the lock with the thumb of her left which entered her body at the junction of the ninth cles of the back near the spine When we first saw her-twenty-four hours after the accident-her condition was an exceedingly alarming one, pulse 150, temperature 103° She had passed, soon after the accident, a large quantity of blood from the bladder But at the time of our seeing her she was not passing blood from the bladder, showing that if there was still hemorrhage it was into the peritoneal cavity, and also that the bladder was not wounded, for the urine was normal

Symptoms of peritonitis were well marked, abdomen considerably distended We had no difficulty in coming to a conclusion as to what was best to be Dr Charles Penrose and myself at once advised the removal of the kidney This was concurred in by Drs Hudder and Ewing, the attending physi-The patient was etherized and opened the abdomen, the wound of the liver was examined, both entrance and exit No hæmorrhage was found labors coming from it enlarged, and the blood removed from the region of dered during the operation the right kidney, when it was plainly seen that the inches hæmorrhage was from that organ The kidney was large enough for a finger to enter I then made a is better than Dr Price states kidney from its bed pushed back or inward toward the spine, and the is assured the vessels of the bowel were not disturbed ligaturing of the pedicle was exceedingly difficult, Dr Penrose having to tie the ligature the full length were applied, one through the pedicle tying it in halves, the other, a large, heavy ligature in one knot, then the kidney was cut away and the ligature tighture in it Rochelle salts was used, followed by two bowels, which gave great relief Patient did uninterruptedly well, with temperature not over 102° up to the time (eighth day) of the removal of the glass drainage tube, when rubber drainage was substituted and was left too long, producing quite a rise of temperature and fetid pus at the bottom of the tube, which was at once relieved by the attending physicians removing the tube and cleaning drainage track

On January 4 was telegraphed for, patient's temperature having been up to 103° the previous night Abscess was suspected either in the liver or the muscles of the back

ing, her attending physicians, in consultation, and found no positive indication of abscess—the girl being in a moderately good condition at the time. with a slight tendency to diarrhœa—temperature 100 4°, pulse 100 She continued to do well until January 11, when Dr Ewing wrote me "Some new trouble seems to be developing in our patient, her temperature is 103 2°, her liver is enlarged and tender, complains of pains in left side and shoulder " On the 12th there was quite a gush of pus and bile from the drainage tube opening-about two ounces. this at once relieved her of high temperature and She has had many changes in the last quick pulse three weeks, with slight discharge of bile and pus from the drainage tube, but has constantly, but very slowly improved Her physicians have given her every attention, and to them I am greatly indebted large quantity of clotted blood was removed from for the care they have given her, nothing but their interest in the case could compensate them for their For the result in this case I am greatly in-The abdominal incision was then debted to Dr Charles Penrose, for assistance ren-Length of incision six Kidney removed for hæmorrhage

DR EWING, of West Grove, said I have nothexamined and found to have a hole in its upper third, ing to add, except that the condition of the patient To-day there was button-hole opening through the peritoneum with only a drachm of pus discharged There is refreshscissors, introduced finger and enlarged the opening ing sleep, temperature is normal in the mornings, by tearing, and without much difficulty nucleated the though there is a slight evening rise, appetite is The ascending colon was good, the bowels are regular I feel that recovery This child was on the verge of death opening in the peritoneum, through which the kid- when the operation was done-the pulse was 150, ney was removed, was made in such a manner that temperature 103°, the extremities were cold, body The covered with clammy perspiration Improvement was manifest at once I am personally much indebted to Drs Price and Penrose for this operation, and I attribute its success to the neatness and dispatch with which everything was done, exhibiting a

high order of skill

Dr J B Roberts said The case speaks for itened before making the second knot. The stump self. While I cannot speak from experience, it has of the pedicle, or button, as it is called, to keep the occurred to me, and the same suggestion has been ligature from slipping, had a portion of kidney struct- made by others, that the difficulty of tying the stump There was complete irrigation A glass so far down and behind the peritoneum might be drainage tube was left in the kidney wound and the lessened by getting the kidney enucleated and then abdomen closed The patient rallied nicely from the twisting it so as to apply torsion to all the renal vesether, and, on the morning of the second day, Ep- sels, veins as well as arteries Afterward the ligasom salts was given in large and repeated doses, but ture might be applied with more ease, and this could not be retained On the morning of the third whether abdominal or lumbar incision be made, day a second attempt was made to have her bowels though in the absence of experience I judge that it would be easier to do this with a lumbar incision or three evacuations and passage of flatus by the I presume that there was no intestinal wound in this case, no mention having been made of any

In connection with the operation by lumbar incision I might refer to an error of my own which illustrates the mistakes our lack of familiarity with operations in this region may lead us into The operation was undertaken for a supposed stone in the kidney, but as no stone was found, it resolved itself into an exploratory incision and acupuncture of the kidney The ordinary lumbar incision had been made with care, and I had come upon the kidney with ease It was suggested that I should enlarge the wound up-I met Dr Hudders and Dr Ew- ward and explore the upper end A few muscular

fibres stretched across the upper angle of the wound, and these I divided by a small cut, when a rush of lumbar incision, which exposed the kidney closely air into the pleural cavity informed me that I had cut a small hole in the diaphragm The accident did the liver and to the iliac vessels. It was distended no harm, it was easily remedied with a few sutures, and the dyspnoea that persisted for a few days was moval attributed by the patient to the tightness of the abdominal bandage I was not sufficiently familiar with operations in this region to realize to what extent the posterior attachment of the diaphragm to the vertebræ dips down here, especially when I saw, as I did, the main mass of the diaphragm bulging down as a great sheet in front of the point where I made the additional incision

Hon does Dr Price ac-THE PRESIDENT said count for the bile?

DR PRICE said I cannot say where the bile comes from, except the liver The wound in the should be divided, thus avoiding the danger of gan liver is about two inches from the gall-bladder ball took a diagonal course and came out at the cess is given to the adhesions, especially those to the margin of the liver, and then entered the kidney did not know what the effect of twisting the pedicle I could bring the edge of the kidney would be within an inch of the wound I consider the abdominal incision the proper one. In this case there were several considerations in its favor rhage had already taken place into the peritoneal cavity, it gave us the chance to examine for wounds We found only wounds of the liver and intestines of the liver and kidney The liver was not bleeding, and we had only the kidney to deal with view of the discharge of pus from the liver, I now believe that it would have been better to insert into the track of the bullet in the liver a small glass drainage tube—this of Bantock's, which is of about the same diameter as the ball—and drained it as has been stated to me by Dr Wood, there has been no case of recovery from bullet-wound of the liver, we are not going to make the prognosis any worse by draining, and I think we might make it better.

Dr Frank Woodbury read a paper on A CASE OF NEPHRECTOMY FOR PYONEPHROSIS

In connection with the case reported this evening, I will briefly relate the notes of a case of nephrectomy performed for me by Drs Deaver and Agnew,

last year, at the German Hospistal

The woman first came to me in the spring of 1886, for vesical irritation, with bloody urine She had had several such attacks following exposure to cold and wet some two years previously In September of the same year there was another attack The urine contained pus, but no blood I washed the bladder with boric acid and alkalies, and subsequently with a weak solution of nitrate of silver The pus continued, epithelial tube-casts appeared, and a tumor slowly developed in the right side Dr Deaver saw the case in consultation and concurred in the diagnosis of pyonephrosis of right side consecutive to inflammation of the bladder Dr Agnew saw the case on December 25, and agreed in recommending opera-On January 10, 1887, nephrectomy was carefully and skilfully done by Drs Deaver and Agnew Death occurred five days later, from exhaustion.

DR Deaver said The steps of the operation were adherent to parts, especially to the under surface of with pus, six ounces being evacuated prior to its re-The mass was very large, and in delivering without wounding the peritoneum required great care I now regret that we extirpated, as I believe it would have been better surgery to incise the kidney, wash out the abscess cavity, insert a drainage tube, and to dress it antiseptically as in nephro-lithotomy

Much difficulty was experienced in ligating the pedicle, as in Dr Price's case I believe the abdom inal incision to be preferable in dealing with greatly enlarged kidneys In performing the abdominal operation, the meso-colon descending, instead of the internal meso-colon, carries all the blood-vessels, Delivery is easier, and better ac-The grene of the gut I iliac vessels

DR J B ROBERTS said The case of Dr Wood bury suggests some studies I made and reported to the American Surgical Association a few years ago, Something can be gained in the way of diagnosis in the early stages of peri-nephritic abscess and other lesions in this region by the study of certain trains of symptoms, pointing to the localization of the dis-Inflammatory affections about the upper end of the kidney, for example, will often show on care ful examination a limited pleuritis, when the lower part is involved there is apt to be spasm of the psoas muscle with flexion of the thigh, in the middle part pressure on the renal vein and other vessels may cause an otherwise inexplicable albuminuria

DR C B PENROSE presented a specimen of

DERMOID CYST OF THE OVARY,

which he had removed two days ago also had a uterus filled with many subperitoneal and interstitial fibroids, and a large blood cyst of the other ovary

DR PENROSE reported a case of

OBSTRUCTION OF THE BOWEL BY CANCEROUS MASS, OPERATION, WITH FORMATION OF ARTIFI-

CIAL ANUS

The operation was performed seven days ago There had been complete obstruction of the bowel. for twenty-eight days prior to operation vomiting occurred two days before operation time of operation there was immense abdominal distension, a temperature of 101°, and a pulse of 150 An abdominal incision four inches in length was made, revealing complete occlusion of the descending colon by a cancerous mass twelve inches long, in volving also the meso-colon

Resection was made of the gut and meso-colon, The two ends of and all indurated tissues removed the divided gut were brought together laterally and united to each other, and the long axis of the ab dominal incision, with continued suture, so as to A bucketful of fluid feces make an artificial anus was discharged immediately after the operation Relief was immediate, quiet sleep lasted for thirty-six

is clean, appetite good, and the patient doing remarkably well

Stated Meeting, February 22, 1888 W W KEEN, MD, IN THE CHAIR DR W W KEEN, read a paper on

A CASE OF MACEWEN'S OPERATION FOR THE RAD-ICAL CURE OF HERNIA, FOLLOWED BY A SPEEDY RETURN OF THE HERNIA

I think it important to report failures as well as Macewen's operation, also, has been so generally successful that it is the more important to report the failure of this case as the immediate result of the operation seemed to promise a cure, but, as you will see, the hernia has quickly reappeared For the notes of the case I am indebted to Dr Lambach, the Surgical Resident

The patient is a man 32 years of age, a fresco painter, but for some time at work dredging oysters When 17 years old he first noticed a right oblique inguinal hernia, for which he wore a truss for a year and then laid it aside The hernia remained cured A year ago, while at work for thirteen years dredging for oysters, the hernia returned, and descended into the upper scrotum He entered St Mary's Hospital January 6, 1888, on account of the distress and inability to pursue his occupation operation was done on the 13th, on the fifth day I pus at any time fifteenth day, his temperature rising to 103°, but as there was no evidence of suppuration, as it yielded promptly to quinine and arsenic, and as his occupation had exposed him to miasmatic infection, we were justified in attributing this to malaria He was kept in bed for twenty-nine days-ie, until Februhim yesterday, (February 21), I found the hernia had returned, with, however, one gain-at the time of the operation the external ring was very large, rethe point of the index finger Moreover, he is exceedingly comfortable, so much so that I doubt if I can persuade him to undergo another operation

An incision was made over the site of the hernia to its lowest point in the scrotum. With the blunt end of the scissors and the finger, the sac was then dissected from the surrounding parts, care being taken to leave no attachment to the spermatic cord The index finger then was passed within the abdominch around the circumference of the internal ring A moderately stout ligature of chromicized catgut

To-day the abdomen is flat, the pulse is 80 | Wilson's curved trachelorrhaphy needle, was then to 90, temperature 99°, there is no pain, the tongue passed through the abdominal wall from within outward at a point a half inch above and external to the internal ring, the skin being drawn upward and outward so as to allow the stitch to emerge through the abdominal muscular wall, but not through the skin Then traction was made on this stitch, thus puckering up the sac, which latter was drawn through the ring and rested against the inner surface of the abdominal wall to become adherent there, closing the hermal opening by a firm pad The stitch was then secured in place The external ring was then closed by four double stitches of chromic catgut, passed I was extremely careful in defrom side to side nuding the inner surface of the abdominal wall to get a large raw surface at the internal ring, so as to gain firm union at that point, and the patient was kept on his back for four weeks, yet it gave way a few days after letting him up I shall repeat the operation if he is willing

DR H R WHARTON I have no personal experence with Macewen's operation for the radical cure of hernia, but I have seen two cases in which Agnew's operation was employed, and three or four in which McDowell's method was resorted to, these are subcutaneous operations, and do not compare with this open operation in thoroughness The immediate results seemed good in the cases referred to, but in a short time the hernias were down again Recent reports from England, though still too recent to The allow us to estimate the permancy of the cure, are very encouraging As to Macewen's operation, I removed five of the nine external stitches, and on think it one of the best that has been proposed, and the twelfth day the remaining four There was no if any radical procedure is to be undertaken it The highest temperature was seems to promise the best results Of course, any He had then two chills, the first on the operation is more apt to be successful in children than in adults

Dr C Dulles I would like to ask Dr Keen if any appliance other than the bandage was used after the patient began to go about The hernia looks as if it had been down some time, and not as if it had descended recently I think it would be At this time I examined him, and found the best not to trust solely to the strength of the tissues herma perfectly cured He was then allowed to get for a little while after the operations There is a up, a spica and compress being applied Examining | point in the mechanics of hernia that I have noticed, and which I have not seen described by others, and that is, that a patient with an inguinal hernia usually has a pendulous abdomen I was curious to see if quiring four double sutures Now it will only admit this spare patient of Dr Keen's would follow the rule, and I saw that he did I may lay too much stress upon the matter, but I believe that the best appliance is not one that makes pressure over the ring alone, but one that corrects this abdominal outline, and changes the direction of the thrust of the intestines from one at right angles to the plane of the hernial opening to one parallel to its plane Such an abdominal supporter as women wear would answer the purpose, and I believe it would add to mal wall, and the pertoneum was disected for half an the chances of permanent success after operations for the radical cure of herma.

Of the cause of failure, I can only Dr Keen was tied to the lower part of the sac, and a series of say that apparently the reparative power did not stitches taken from the lower portion of the sac to suffice to obtain adhesion of the sac to the abdom its mouth This stitch, by means of Dr Ellwood inal wall. Why, unless the two chills referred to

had some influence, I do not know practice of those who have had a large experience the antiphlogistics, with aconite, veratrum, large with these operations has been not to use any truss I cannot agree with Dr Dulles He is right as to the shape of the abdomen, and in correcting it to a more oblique outline, but the pressure will always be at right angles to the abdominal walls anteriorly, and not down into the pelvis That would, however, correctly express the direction of the rebound to the exact time when the hernia reappeared I can-When I examined him, February 15, four days after letting him up, it was not there I did not see him again until February 21, when I found it had reappeared I shall not wait long before re-He wants to be earning peating the operation wages, and I do not want to burden the hospital with any patient longer than necessary Any danger will have passed over in a week or two, and I will then operate if he consents

DR Dúlles When we bear in mind the comparatively mobile state of the contents of the abdomen, we must see, of course, that the intra-abdominal pressure is exerted in all directions, and we might draw any number of arrows to indicate it, but there is only one direction of "thrust," which is the resultant of all the lines of pressure, and by supporting the abdomen, as I suggest, by a firm and comparatively unyielding support, we turn the direction of that thrust into a line following the axis of the pelvis, and

take it off the ring

CLINICAL SOCIETY OF MARYLAND Stated Meeting, February 3, 1888

PRESIDENT, N G KEIRLY, MD, IN THE CHAIR b lı١ RAM Woods reported W(ASES OF HALLUCINATIONS DUE TO THE be STRATION OF SODIUM SALICYLATE of sodium salicylate to relieve the pain duration of some of the intra-ocular Iı now, I think, generally recognized I wr tis are the inflammations specially tomy Nor is its good action eatment last y supposed, to these cases having Th⊦∖ Intis, clearly due to syphilis, for ve!' yon of rheumatism, I have severai the wet somuch heved by the salicylates the san'e best course, but the salicycontain wer the of aborting the attack weak soliter of the of epithelial w weak solid par pare of epithelials its raid add one developed area of perations in consulta not operation of the its raid add on the pyonephrosi tion of the its raid of the peration of the p he system must be ence of the drug, s fact gives us a doses of the tion of the let to and dorn, December 25, we were the addorn fully and skilful ac the addorn Death occurred with the action of the course of t ang the heart's These reepression cle, and es not

The usual sodium salicylate—if given in large doses—among doses of quinine, etc Still, I can hardly believe that all the antiphlogistic effects of the salicylates are due to their depressant action on the circulation Other drugs which lower the blood pressure—for instance, the bromides and those already mentioneddo not sensibly relieve the pain nor affect the course There seems to be a selective action which of iritis we little understand The large doses required often produce effects which are not only disagreeable, but may, in exceptional cases, become dangerous Nausea, tinnitus aurium, deafness, fulness in the frontal region of the head, wakefulness are the symptoms The amount which will pro commonly met with duce these physiological effects usually stops the in flammation, or by its failure, induces us to use other More rarely, violent purging, involuntary means evacuations, great dyspnæa and collapse are ob-Professor Chisolm, of this city, served (Bartholow) reported two or three years ago a case of purging and involuntary evacuations occurring in a patient, who took, through a mistake of the druggist, 192 There were, in addition, grains instead of 24 marked depression and weakness, but the patient The force of the drug fully recovered in two days is sometimes expended wholly upon the nervous Such extreme effects as complete deafness, ptosis, strabismus are mentioned in our text-books as having been occasionally observed mentions a case of amaurosis due to the administra-There was no retinal lesion tion of 125 grains Delirium and visual hallucinations are nervous phenomena more commonly observed than those just mentioned Brinton says "Salicylate of sodium in some persons tends to cause most disagreeable visions, whenever the eyes are shut, and I have seen it have this effect even in such a small dose as 5 grains" (Materia Medica) According to Bartholow, it is specially apt to produce delirium in drunkards In the British Medical Journal of January 29, 1881, Dr Bastian presents a series of five cases of delinium and visual hallucinations following the use of sodium salicylate in acute rheumatism One case was that of an old toper, and the character of the delinum was similar to that of delerium tremens the rheumatic poison seemed to be specially virulent, and the delirium was more like that sometimes ob served in acute rheumatic fever, and due only to the rheumatic influence Dr Bastian concludes that if the patient's condition is such as to predispose to delirium, the salicylate will probably precipitate the attack, which, in its characteristics will resemble the delirium occurring in the predisposing disease Cases, however, are here and there recorded in which, like those immediately to follow, there was no pyrexia to produce the trouble, nor any influence which could be held responsible except the salicylate

Case I —Mr J S age 43, occupation journalist, consulted me April, 1886 He had had iritis in the The iris was muddy, the pupil contracted, the periphery of the iris bulged forward, and there was pus in the anterior chamber facts place Pain was intense not only in the eye, but in the

temple There was no syphilis, but an attack of office, seemed to offer an explanation for his iritis heart trouble He gave a distinct history of phthisis in the family, and while I could not find a cavity in either lung when I examined him, there was dulness over the apices of both lungs, there was considsometimes very troublesome I have not seen him Undoubtedly he has fallen a victim | fects growing weaker His habits were temperate He said to phthisis sometimes, a little whisky at bed time him 20 grains salicylate sodium every four hours greatly improved, he asked colored women with a child on her lap sitting on the they introduced themselves On learning this, he said one there make me sure" On questioning him, I found he chamber and found his hand came down upon the sofa between 10 AM, and 10 PM, the day before, mak- his body-servant was in the contiguous room in bed a little while he noticed his ears buzzing could not sleep, and soon thought he was having a of the previous night, he said his mind that it was all imagination, laid down again, and talked away at his son as much as ever, so much so that his wife asked him to stop talking After awhile the delirium changed and he thought he was at the telephone in his office, and couldn't speak above a whisper He got out of bed two or three times during the night to answer a supposed telephone call In the morning, while coming to town in the cars, he was troubled by seeing a black cat on his knee he do this than they would all come trooping back as real as ever His pulse was about 80, temperafrom giddiness ture normal and found it free from albumen

out for me the following notes

Case 2 — L G, aged 50, of temperate habits, has rheumatism three months previous to his visit to my been for ten years troubled with repeated attacks of Each attack runs its tedious course specific iritis There was, so far as I could make out, no organic of six weeks or two months under the orthodox treatment of 10d pot and mercury with the local use of atropia and an occasional application of leeches Four years since the treatment was to the temples changed to the salicylate of sodium in 25 gr doses erable emaciation, and he had a cough which was given four times a day The drug alleviates very promptly the inflammatory attacks and enables him since I discharged him in the spring of 1886, after often to get out in a fortnight-a marked shortening his iritis had gotten well, but he wrote me, from his of the paroxysm. In his case the remedy is not home in Baltimore County, during the past winter without its detractions. It does not disturb very that he had been obliged to give up nearly all his materially his digestion, but when continued for work, that his cough was incessant, and he was some days produces very curious psychological ef-By the fourth day of taking, particles of dust become conspicuous against white surfaces and polhe usually took a glass of sherry with his dinner, and lute the water which he drinks The particles cov-I applied ering his white bed-spread grow in size into green a compress bandage to his eye, ordered the instilla-|flies, and some of these develop into green frogs, tion of a 4 grain atropia solution, and prescribed for with a few green snakes They are not stationary but are in constant motion He knows them to be When he called at my office the next day, I was en- an illusion, but they look very real notwithstanding gaged, and he sat in the waiting-room about half an If the medicine is stopped at this stage of the men-After I had examined his eye, finding it tal disturbance in twenty four hours they are all re-"Doctor, is there a big moved, disappearing in the transition forms in which Should it be needful sofa in the other room?" I told him I didn't think to continue the large doses of the salicylate, figures there was, but to satisfy him, I looked and found no of men, not always with the most pleasant counte-"I wasn't sure nances, appear on the scene At one of my morn-I didn't see her until I had been in the room | ing visits my patient reported his night's sleep much a little while, and then she wasn't clear enough to disturbed by the intrusion of three men into his In waking, by the dim light of the turned had, to settle the question in his own mind, gone up down gas, he saw three men inspecting his box of to the sofa, and tried to touch the supposed woman, valuable papers, which they for convenience had He transferred to a side table He reasoned with himthen told me that he had taken four of the powders self that no one could get into his house, and that ing 80 grains in all He retired about 10 o'clock, could shut out the vision by closing his eyes. At my and did not take a stimulant that night After being visit he was sitting facing an open door leading He into the next chamber After describing his visions "Now I know perdispute with his son He sat up in bed, made up fectly well that there is no one in that room, pointing to the door, and yet there stands in a threatening attitude a big man with an ugly club I can shut him out by shutting my eyes, but there he is all the same"

On another occasion, after using the salicylate for some days, with the recurrence of motes, then flies. frogs and snakes, always green ones, I found him at midday sitting in the dining-room As soon as I had examined his eyes and found that the injection had He could convince himself that these nearly disappeared he said that he was very glad of things were all hallucinations, but no sooner would it, and could now stop the sodium because the hallucinations were becoming annoying Just before I When standing alone he suffered had arrived, a mouse had come out from under the After playing about on the rug it commenced I had him pass his urine in my office, to puff up and became a cat The inflation continued, The salicylate was the animal becoming larger, until it assumed the ap-He slept very little that night, but the pearance of a tiger, upon mischief bent When the next day seemed completely himself The iritis was animal crouched with the intent of springing toward afterwards treated with kal iodid and the alkalies him he asked his mother, who was reading the morn-The other two cases occurred in the private pracing paper at the window, to come toward the fireplace tice of Professor Chisolm, who has kindly written In doing so she got in between himself and the threatening animal, and the illusion vanished During these to take care of it conditions of mental excitement the reasoning powers lirium takes the form of mania, and the patient is were never disturbed, nor did the conversation at violent any time indicate otherwise than a clear head this case the physiological influences seemed always cause delirium, the question of diagnosis becomes to run in the same channel occurred to him on several occasions at many months salicylic delirium is to be distinguished from that due of interval, and always in a regular order. After the rheumatic influence by the absence of fever and three or four days taking large doses of the salicylate lessening of the joint pains at the time the delinum he would mention to me "Doctor, I saw the little occurs" This was so with his cases, and with those pieces of stick in my basin this morning, the flies reported by Dr Bastian will come before the day is out "

Case 3—Miss S, aged 50, had been operated upon for double acute glaucoma Vision had been reduced to light perception before operation, and was so perfectly restored that she could use her eyes for hours daily in confined literary pursuits Four years all after the iridectomy, her left eye was attacked with mens), it is to be diagnosticated by "the absence of a sharp inflammatory attack, which she conceived to be a return of her glaucomatous trouble I saw her after three days of suffering, and found an acute attack of iritis, with some pus in the anterior chamber, a heavy rim of injection around the cornea, a very painful eye with very dull vision sodium was given in 25 gr doses, four times a day By the second morning all congestion had disap-The media had cleared up in a wonderful manner, and vision had returned She stated that she had had a most horrible night of hallucinations of most disagreeable forms. She was very glad to know and feel that the eye was so very much better She had made up her mind, from the horrors of the preceding night, that she could not take another dose of the medicine, even if the safety of her eye depended upon it

In my own case, and the last of Prof Chisolm's, the delirium came on during the first ten hours of the administration of the drug In the Practitioner, for May, 1882, Dr C S Coulston publishes an interesting and exhaustive thesis on "The Use of the Salicylates in Rheumatism " Speaking of this delirium, he says that it usually comes on within the first eight hours, and is due to overwhelming the nervous system with large doses before tolerance is established, which can be readily done aurium appears, the salicylate, Dr Coulston thinks, should be discontinued until the tinnitus has gone Then the salicylate can be given with freedom Each of the five cases reported in the British Medical Journal by Dr Bastian afterwards took the med-In the extremely interesting icine without trouble case (the first narrated by Prof Chisolm), the medicine seems to be well borne for three days, and then Tolerance is not established the delirium comes This case also opposes the remark of Brinton's that the hallucinations only appear when the eyes are edge that the objects seen were hallucinations, but spoken of, in therapeutical value, of the preparations they could not be permanently driven away patients were, on this account, not greatly terrified Dr Coulston states that the hallucinations are usually of a harmless, non-terrifying character ner was the baby of an intimate friend, and he had been received with such favor is that known as liquot his patients insisted that a bundle of rags in the cor- country also

Occasionally, however, the de

In those diseases which sometimes of themselves These experiences had an interesting one Dr Coulston shows that the The latter gentleman quotes the observation of Simon, that delimin in rheumatism means involvement of the heart, and this may throw doubt on the influence of the salicy late in causing the hallucination. In three of Dr Bastian's cases there was no heart complication at From the delirium of drunkards (delirium tre tremulousness in the hand or tongue"

The manner of the production of the delirium is also an interesting question. As some of the cases also showed albuminuma, it was supposed that acute nephritis had resulted from the use of the salicylate, The salicylate of and that uramia had caused the delinium Subse In only one of quent cases have disproved this Dr Bastian's cases was there albuminuria. Dr Ack land, quoted by Coulston, "thinks that uræmia, due to the great diminution of the amount of urea ex creted by patients taking salicylates, may be an im portant factor in the production of the delirium Dr Bastian's opinion—that it precipitates an attack of delirium impending from some other disease—has already been alluded to By others the delirium has been supposed to be due to impurities in the sali cylate, and it is asserted that the pure salicylate never Dr Coulston concludes his produces delirium study of this branch of his subject with the remark "The direct action of the salicylates on the nervous system is sufficient to account for the delirium, apart from either albuminuria, uræmia, or the rheumatic those would be complication, though predisposing causes"

FOREIGN CORRESPONDENCE

LETTER FROM LONDON

(FROM OUR OWN CORRESPONDENT)

The Albuminates in Medicine-A Large Lee Re fused—Diagnosis and Treatment of Ruptured Intes tine without External Wound-Sanitary Registration of Buildings-Increase of Population of England and Wales—Cremation in England

The albuminates are a class of medicine which is coming into extended use, and one of the most highly of iron, is that which falls into this category In Germany albuminate of iron has already been suc cessfully introduced into medical practice and will One of doubtless sooner or later be put upon its trial in this The particular preparation which has

ferri albuminatic "Drees," which besides the advanwith which it is absorbed from the circulatory fluids Of dried egg albumen 2 5 parts are most suitable dissolved in 30 parts, (all, including the following, by weight) of cinnamon water, forming solution No 1 Then 12 parts of liquor ferri perchloride are diluted soda immediately added The whole is thoroughly The product is a agitated until completely mixed reddish brown, somewhat oleaginous looking liquid with a sweet taste and a slight alkaline reaction is miscible with all proportions of water, and with milk, or other albumen rich fluids, without precipita-The former liquid forms a suitable vehicle for its administration, and the dose is from one to four teaspoonfuls several times a day Prolonged boiling will not separate the albumen of the preparation

Mackenzie has been offered to go to America to see a patient, is probably the biggest thing in the way of a single fee that has been heard of in these days Sir Morrell himself got £1000 for going to Cannes to see Mr Stirling Crawford, and Dr Hahn had the same amount for coming from Berlin to Mr Montague Sir Henry Thompson received £2000 (of which he returned half) once, but these are trifles compared with the fee Mackenzie has declined

Speaking at the London Clinical Society upon the diagnosis and treatment of ruptured intestines without external wound, Mr Mayo Robson said that in some cases of ruptured intestine the symptoms were so distinct as to be pathogenic, that other instances of abdominal injury might present most of the signs of ruptured intestine and yet recover, the shock being due to disturbance of the sympathetic nervous system, and the liver dulness diminished by distended intestine, that the usual symptoms might be entirely absent for a time, only becoming evident after some hours, and that a failure in diagnosis might occur from injury to other regions taking the attention from the abdomen With regard to the diagnosis Mr Robson considered the signs and symptoms separately, and then collectively, remarking on the variability of the cause, the difference in the degree of shock, the usually rapid and feeble pulse, the constant presence of vomiting and pain, and later the usual signs of peritonitis, but especially dwelling on the importance of altered liver dulness, which when normal was almost proof of absence of perforating wound of alimentary canal, when diminished was suspicious of perforation, but when absent was almost pathogenic of rupture He considered the symptoms most to be relied on were shock, more or less severe, following immediately on an accident, pain in the abdomen, moderately quick and flabby pulse, vomiting of contents of stomach, followed by bilious vomit, could be placed upon the expectant treatment, and torum

that the only hope of success lay in early operation tage of being less unpleasant to take than any other For his own guidance he had adopted the following iron compound is also preeminent in the readiness rule. In cases where there was a reasonable belief that the intestine was wounded, as evidenced by the The following formula at present is found to be the history, symptoms and signs, exploration by a small median incision must be made, when if there were any rupture of the bowel, flatus or serum, tinged with blood or purulent material, would escape through the small peritoneal opening which could then be enwith 40 of water and 12 of spirit, forming solution larged and necessary treatment adopted, but should No 2 These two are then mixed together, shaken, no flatus or fluid appear and the peritoneum prove and 1/2 a part each of liquor ammonia and liquor to be healthy, the small wound could be closed and no harm would have been done

A Conference has been held at the Society of Arts, under the Presidency of Sir Joseph Fayrer, to consider the sanitary registration of buildings, with special reference to the bill which is to be promoted in Parliament during the coming session In the course of a paper the objects of the bill were defined as (1) to seek to protect the community against the unsanitary conditions in public and semi-public buildings, and (2) to encourage attention to the sanitary state of The fee of £6000, which it is stated Sir Morrell private dwellings Dr Brudenell Carter moved a resolution declaring the expediency of a compulsory inspection of all public and semi-public buildings with a view to their being properly certified by a competent authority as fulfilling the requisite sanitary condition, and also advocating the establishment of a public sanitary registration office The resolution was unanimously carried

The Registrar-General's returns for 1887 show that the increase of population of England and Wales during the year, as estimated by the excess of births over This is 11,000 less than the deaths, was 355,440 increase of the previous year, showing that the falling off in the rate of increase is not only maintained but has even been accelerated According to the rate of increase from 1871 to 1881, it should have been 23,669 more for 1887 than it actually has been According to the Board of Trade returns, the emigrants from the same portion of the United Kingdom numbered 172,324, thus leaving a net increase in our poplation of 183,106, without allowing anything for immigra-The death-rate last year was 188, a figure which is less than it has ever been since the commencement of civil registration in 1837 Indeed so steadily has the death-rate declined during recent years, thanks no doubt to improved sanitation, that it is estimated that England and Wales contained at the end of last year more than 400,000 persons who would have been dead had the death-rate that prevailed from 1871 to 1880 been maintained The total population of the United Kingdom in the middle of 1887 is estimated at 37,091,564, of which 28,247,151 were in England and Wales, 3,991,499 in Scotland, and 4,852,914 in Ireland

Cremation in England, according to the returns of the Cremation Society, appears to be gaining in favor, as during the present year they have cremated five bodies at their working crematorium. In the case of a child eight months old, the ashes weighed only anxious countenance and diminished or absent liver eight ounces. Up to the present time thirty-one Mr Robson remarked that no rehance cremations have occurred at the Society's crema-

G O M

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FROM OUR OWN CORRESPONDENT)

Relations of Summer Diairhaa and Cholera Infantum to the Weather-Hospital Saturday and Sunday Fund

At the last meeting of the Academy of Medicine in February Dr A Seibert read a paper on the relations of cholera infantum and summer diarrhoea to the weather, which showed a most commendable degree of industry in its preparation These statistics bring to light a number of interesting points, some of which are in opposition to the views generally held by the profession and the laity, but it is to be noted that exception was taken to some of his conclusions by the speakers who took part in the discussion on this occasion

The paper was based upon observations made during a period of ten years, extending from January, 1878, to January, 1888, in the children's department of the German Dispensary of this city, and was illustrated by a large number of charts The cases studied included, he said, all those of acute gastrointestinal catarrh, occurring in children under the age of 5 years, which were treated at the Dispensary during this time As was naturally to be expected, the largest proportion of cases occurred during the summer months and the smallest number in the winter months His statistics, as well as those of the Board of Health, however, he claimed, showed that the disease existed all the year round (even in the coldest weather), and that the proportionate mortality was just the same in cold as in hot weatherabout one case in every four proving fatal

It was a somewhat remarkable fact, he went on to say, that the number of cases and deaths was always much greater in the month of July than in August Thus in the ten Julys there were 2,443 cases at the Dispensary, and in the ten Augusts only 1,524, while summer month, and of every day of each month, the number of deaths reported in the city of New during the last ten years, had led him to the follow York during the ten Julys was 12,428, and during the ing conclusions ten Augusts only 6,205 The reason for this difference, he thought, might perhaps be explained by the fact that it took a few months, after the warm weather had set in, to fully arouse the tenement-house population to the danger to which their children were exposed from this disease, and to the necessity of taking suitable precautions as regards diet, fresh air, sanitary conditions, etc., for its prevention

During the summer months Dr Seibert said that it was found that the number of cases and of deaths bore no relation whatever to the rise and fall of temperature, and the same was true as regards the range of humidity, so that warm moist weather did not predispose more to the disease than warm dry weather He stated that he had also made a very thorough in- furnishes the principal food of so many young chil vestigation of the effect of light and heavy rain-fall, but totally without result been a favorite idea with him that want of water on from the time it left the cow the upper floors of tenement-houses constituted a a question of how far the decomposition of the milk somewhat important factor in the causation of sum- had advanced by the time it was consumed by the

mer complaint in the city Local rain-falls also had no effect, and the same was true in regard to the velocity of the air-current

He believed it to be still a disputed point whether direct heat is capable of causing the disease in question, and he had accordingly made a special study of all the hot days in the ten summers—when the thermometer rose to 85° or higher According to prevalent opinion, the months containing the greatest number of hot days ought to have had the greatest number of cases and of deaths, but he had found no evidence supporting this view Thus, in the last two weeks of June, 1880, there was a large proportion of these hot days, and in the same period of 1887 there were but few of them, yet the number of cases was just about the same in both of the fortnights mentioned Again, in July, 1881, when there were but few hot days, there were 290 cases, while in July, 1887, which was considerably hotter, there were only 196, a ratio

How, then, were we to account for the fact that in the warm months there are always such a large num ber of cases? It was evident, he said, from the facts just pointed out, that hot weather was not necessary for the production of the disease In regard to warm weather, however, the case was different, and the statistics collected showed that in the early part of the summer season, as soon as the minimum daily temperature reached 60°, and this continued for a few days, an increase in the number of cases of acute Furthermore, gastro-intestinal catarrh was noticed if the minimum daily temperature remained above 60° for a number of days (say for a week or more), it was noticed that the disease became epidemic The reverse of this was noticed at the close of the warm season in October, the month of departure During the first half of the month the minimum daily temperature usually reached 60°, but in the latter half, when the colder weather set in, the end of the epidemic occurred

To sum up, an examination of the records of every

1 Hot weather, either dry or moist, is not neces sary for the epidemic appearance of acute gastrointestinal catarrh

2 Warm weather, either dry or moist, showing a minimum daily temperature of not less than 60° brings on the epidemic every year, irrespective of the maximum daily temperature

3 The disease loses its epidemic character as soon as the minimum daily temperature falls below 60°, as in October

4 Therefore, this disease cannot be brought about by the direct effect of high temperature upon the child's body

Dr Seibert then went on to speak of the milk that It was often carried long distances, he said, Previous to this it had being much jolted about, and absorbing impurities It was, therefore, only

retarded decomposition, and Dr Cyrus Edson, of the New York Health Department, had informed him that in his experience he had found that milk usually began to turn whenever its temperature reached 60° or higher Chief Engineer Birdsall, of the Department of Public Works, had also informed him that milk was the chief exciting cause of the trouble He whenever the temperature of Croton Lake rose to 60° or above, there was a peculiar taste to that water which he attributed to the decomposition of certain matters contained within it

In the discussion that followed the reading of the paper Dr L Emmett Holt said that in summer there were different forms of diarrhoad disease in young children, and that he thought it advisable that some distinction should be made between them In the production of what is ordinarily known as summer complaint he believed that there were four principal stances in cold weather factors concerned, viz 1, heat, 2, feeding, 3, sanimost important of these factors was heat

Dr Holt as to the importance of distinguishing between the different forms of disease met with had seen cases in the warmest weather in which an aggravation of the symptoms resulted from reduction of temperature The child took cold, and the disease was then apt to assume a dysenteric tendency weather, as he believed the latter to be an entirely to give rise to diarrhoea different affection from the former In the cooler ferent that it was unjust to classify the two diseases together, although the lesions might be the same The difference between the two was as great as that between the bronchitis incident to pertussis or measles and idiopathic bronchitis

It seemed to him, also, that one might be misled by the number of deaths reported Thus, many of the deaths occurring in August or September might be children who had contracted the disease in the earlier part of the summer The mortality, as a rule, was somewhat greater in September than in May, although the temperature was usually higher in the latter month than in the former, and the reason was because many of those dying in September had been taken ill in one of the previous months

It could be stated in a general way, he thought, that the disease known as summer complaint was caused by heat, but in what way the heat operated to produce it was not as yet clearly ascertained was evident that heat alone was not sufficient for its production, or else the disease would be found prevalent in the country as well as in the city It must be a fact, therefore, that there were certain causes which were brought into operation by the unsanitary conditions met with in the city in hot weather, and the opinion was gaining ground among the best ob servers that summer diarrhoea is a microbic disease In Asiatic cholera, the causative agency of Koch's braillus had been pretty generally accepted, and it

It was well known that a low temperature to the intestines by its actual presence, and not by causing decomposition of food In like manner, it did not seem unreasonable to suppose that microbes might act in the same way in some cases of summer diarrhœa

Dr Caillé said that, in his opinion, decomposing believed, also, that high temperature sometimes does have a pernicious effect upon the human body, and thus serves to pave the way for some agency which will give rise to the diarrhœal trouble It was a fact that children nursed at the breast, or brought up on some of the numerous infants' foods in the market, who never get cow's milk, will sometimes be attacked with serious gastro intestinal disease if allowed to overload their stomachs in hot weather, while they will suffer but little, if at all, under the same circum-

He then quoted some experiments made by two tary conditions, and 4, constitution, and that the French physiologists on animals exposed to a continued temperature of 104°, in which the phenomena Dr J Lewis Smith said that he quite agreed with observed to result from this exposure were 1, increase of nervous excitability, 2, nervous depression, He and 3, convulsions, coma and death The same results, he said, had been noticed to be produced in children when the weather was very hot It was his opinion, therefore, that while high temperature did not directly produce diarrhoa, it did have a perni-He thought there was perhaps a fallacy in comparing clous effect upon the system, and under these cirsummer diarrhœa with the diarrhœa met with in cold cumstances any irritating substance would be likely

As regards the smaller number of cases of summer months the causes of the trouble were usually so dif-complaint, as well as of deaths from the disease, in August than in July, he thought that perhaps one reason for this was that a much larger number of children left the city in August than in July, while those which remained had the advantage of the numerous fresh air excursions then provided for the

> The President, Dr A Jacobi, said that there was a great difference in the cases observed The larger number were of a simple catarrhal nature ers, where the discharges were serous in character, there was a tendency to collapse In such cases the lesions found in the intestines after death might be very slight, while several of the organs of the body might be found to be in an advanced stage of granular degeneration He believed that great heat would kill by its direct effect upon the muscular system, including the tissue of the heart itself, the high temperature having the effect of coagulating the myosine of the muscles Intense heat also had a certain influence on the surface of the body, causing an immense dilatation of the blood-vessels cient nutrition, particularly of the brain, would result from this, and thus collapse would be brought about These were the cases of true cholera infantum, which generally terminated fatally, and which were liable to be met with in well-to-do families as well as among the very poor The large majority of the cases met with, however, were of gastro intestinal catarrh

Dr Jacobi said that he had been much interested was believed that this micro organism was received in the fact demonstrated by Dr Seibert's investigathrough the mouth and acted as a source of irritation tions, that 60° was the turning-point for this disease,

and it was especially noteworthy in this connection that Dr Edson had expressed the opinion that milk began to decompose, and Chief Engineer Birdsall the opinion that water began to be affected by decomposition, also at 60° In conclusion he made some remarks in regard to the importance of proper ing the After-treatment of Cataract Cases," by Dr

The annual collection of the Hospital Saturday and Sunday Association amounted this year to the handsome some of \$50,408, which, notwithstanding the withdrawal of the Presbyterian Hospital from the Association, renders it possible to distribute among the hospitals entitled to a share of the undesignated contributions some \$6,500 more than last year

NITRITE OF AMYL IN DYSPNŒA

Dear Sir — The Journal of January 21 contained an editorial comment on the use of "Nitrites in Asthma," as observed by Professor Fraser, of Edinburgh, wherein it was stated that the nitrite of amyl, formerly given by inhalation, produced the same effect with much longer continuation when given by the stomach

At that time I had a patient with Bright's disease, who suffered most agonizing paroxysms of dyspnæa —they were simply terrific, notwithstanding the use of ordinary measures There was no asthma what-On the recurrence of an attack, after reading the editorial, I gave 3 drops of nitrite of amyl in a teaspoonful of brandy without expecting much result, but simply as a deinier ressort The result was simply miraculous! It was almost instantaneous From a sense of impending suffocation the patient began to breathe perfectly freely in less than five This relief lasted for upwards of twelve hours, when the same quantity was repeated on the recurrence of another attack, with the same result, and without increasing the dose The nitrite was given on every recurring attack until the attacks finally disappeared, and for several days the patient The original disease, has had no dyspnœa whatever however, is unaffected by the nitrite

Now, while I am free to admit that one swallow doesn't make a summer, and while I know that this Paul Schillock, to be Asst Surgeon, with the rank of First remedy is not especially recommended for the dyspnœa of Bright's disease, still, I have seen enough of its effects in this case to make me wish that I could tell my experience to the whole profession at once

E B WARD, M D

Laingsburg, Mich, February 18, 1888

ASSOCIATION ITEMS.

SECTION OF OPHTHALMOLOGY, OTOLOGY AND ILARYNGOLOGY

Members of the Association who contemplate contributing papers to this Section are requested to send the titles of the same, as soon as possible, to the Chairman of the Section, Dr F C Hotz, 103 State The following papers are al-Street, Chicago, Ill

ready promised for the approaching meeting of the

"Gummata of the Ciliary Region," by Dr 5 C Ayres, of Cincinnati

"The Advantages of Leaving One Eye Open dur J Chisolm, of Baltimore

"Melanotic Disease of the Conjunctiva and Epis cleral tissue, with Five Illustrations," by Dr Rob

Sattler, of Cincinnati

"On Nutrition, or the Constitutional Treatment of Diseases of the Ear," by Dr Laurence Turnbull, of Philadelphia

"The Bougie in Catarrhal Inflammations of the Middle Ear," by Dr W Chatham, of Louisville "Reflex Nasal Cough, with Report of Cases," by

Dr Max Thorner, of Cincinnati

"An Interesting case of Fibroma of the Larynx," by Dr Jos Eichberg, of Cincinnati

"A Plea for the Better Recognition of the Oculist in the Service of the U S Pension Department," by W Wright of Columbus

"The Treatment of Strabismus due to Paralysis or Extreme Over-correction with Loss of Motion," by Dr A E Prince, Jacksonville, Ill

"Illustrative Points, in the Examination of the Nose and Throat," by Dr Carl von Klein, of Day ton, Ohio

"Binocular Astigmatism," by Dr H Culbertson, of Zanesville, Ohio

MISCELLANEOUS.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U.S. ARMY, FROM FEBRUARY 18, 1883, TO MARCH 2 1888

Lieut Col Edward P Vollum, Surgeon, granted leave of ab sence for four months, with permission to go heyond sea and to apply for an extension of two months SO 41, AGO,

February 20, 1888

Capt E F Gardner, Asst Surgeon, granted leave of absence for one month and twenty one days S O 41, A G O, February 20, 1888

APPOINTMENT

Lieut, January 31, 1838

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U S NAVY, DURING THE WEEK ENDING MARCH 3, 1888

Surgeon T C Heyl, orders to the receiving ship "St Louis" revoked

Surgeon C H White, present duty continued to October 1, 1888

Surgeon T H Streets, ordered to the receiving ship "St. Louis"

Surgeon M C Drennan, ordered to the receiving ship "Yer

Surgeon G R Brush, detached from the receiving ship "Vermont," and to the "Pensacola."

P A Surgeon Victor C D Means, detached from Naval Hos

pital, New York, and to the "Pensacola"

Medical Inspector A A Hochling, detached from the "Pen sacola" and wait orders P A Surgeon G E H Harmon, detached from the "Pensa

cola" and wait orders
P A Surgeon J M Edgar, detached from the "Pensacola"

and wait orders

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

PUBLISHED WEEKLY

Vol X

CHICAGO, MARCH 17, 1888

No 11

ORIGINAL ARTICLES.

THE PATHOLOGY OF HAY FEVER

Read in the Section on Psychological Medicine and Nervous Diseases, Ninth International Medical Congress

BY S S BISHOP, M D,

Synonyms Nervous catarrh, nervous coryza, hay asthma, rose cold, June cold, July cold, peach cold, summer catarrh, autumnal catarrh, pollen poisoning Latin equivalents Catarrhus æstivus, coryza vaso-motoria periodica French equivalents Catarrhe d'été, catarrhe de foin German equivalents Fruhsommer-catarrh, Heu-asthma Italian equivalent Asma dei mietitori

Goethe has tersely said "If a man write a book let him set down only what he knows " In medical literature there is much writing of the negative sort But if a man take an inventory of his mental stock he is forced to admit that a large percentage of it The object of philosophy is consists of negations the knowledge of phenomena in all their relations, and it cannot be attained independently of theories and hypotheses Not less indispensable are the same methods of investigation and reasoning, and not less latitude must be enjoyed, in discussing a subject of the peculiar nature of the one which furnishes the title of this paper One must divest the mind of preconceived opinions before it is free to apprehend causes and conditions in their true proportions Much has been written concerning biology, electricity, phrenology, magnetism, yet who has mastered the principle we call life? What Æolus restrains the electric currents of the world? Who measures the molecular activity of the brain when his own thought is evolved-labels this atom, "love," or that, "causality?" Who can define odylic force, and the law of its operation? But, though our path is beset with discouragements, and our work of irvestigation is hemmed in by the natural restrictions of human thought, and the limitations of our knowledge of pathological processes, the laboratory, lens and logic may yet triumph

The name hay fever is a misnomer. It is employed to designate a condition to which numerous other terms have been applied with equal fitness. To the array of names already in use, ill chosen because they are misleading, I have had the temerity to add another. In a published lecture, delivered in

the Chicago Medical College in 1885, I proposed the term nervous catarrh Since then several authors have adopted this expression One writer, however, calls it nervous coryza, but coryza is from the Greek $n \dot{\rho} \nu \xi \alpha$, signifying only a running at the nose, while the word catarrh, from ματαρρέω, admits of a much broader application and, with properly modifying adjectives, may be used to designate affections of various mucous membranes Coryza is a specific term, catarrh is generic, and obviously is the more correct one to characterize a disease which is not confined to the nasal cavities Nervous catarrh is so comprehensive a term, and is so tersely suggestive of the pathology and symptomatology of certain neurotic derangements, as to be susceptible of a much larger usefulness than has been accorded it To illustrate There is a truly nervous intestinal catarrh which attacks and leaves a certain class of individuals of the nervous temperament as suddenly as an attack of hay fever does I have known a musician to suffer from severe attacks of diarrhœa just previous to his appearance before an audience which he was announced to entertain Immediately after his performance all symptoms of intestinal disturbance would vanish, only to return again at his next appearance in public I might cite a case of an orator of the evening who was similarly afflicted The nervousness induced by the contemplation of addressing his audience would so react on the nervous supply of the intestinal tract as to cause sudden and copious diarrhea No sooner would the oration be finished than all unpleasant symptoms ceased We have nervous dyspepsia occasioned by mental A certain combination of objective and subjective causes operating on one individual produces morbid phenomena referable to the mucous membrane of the turbinated bodies, resulting in an attack of hay fever-nasal nervous catarrh In another, the seat of the resulting manifestations will be in the bronchial mucous membrane, eventuating in an attack of asthma --- bronchial nervous In yet another, the intestinal mucous coats catarrh are the scene of this breaking of a nerve storm, resulting in copious watery discharges-intestinal nervous catarrh All these are undoubtedly coordinate morbid conditions of the nervous system, finding expression in exaggerated and perverted functional activity

cause they are misleading, I have had the temerity to add another In a published lecture, delivered in time of its first description by Dr Bostock, of Lon-

don, in 1819, until the last decade ing upon hay fever as a simple congestion or inflam- reasoning, for it argues the reflex neurotic character mation of the Schneiderian membrane, as eminent English authorities have in the past, and yet do, fever not only in its etiology, symptomatology and prominent American authors favor the neurotic the- therapeutics, but in the morphology of its secretions ory In this connection it is interesting to note that The manner in which exciting causes bring about ata recent writer for the Lancet treats of common nasal catarrh as a reflex neurosis and, in support of his position, adduces numerous instances in which purely nerve-remedies succeeded in arresting attacks of acute coryza

Although I maintain that this malady is essentially due to an abnormal susceptibility of nervous tissue, I do not claim that there exists any organic lesion of stantly thrown into a state of intense excitation, or the nervous centres, to which the disease is attribu- irritation destroys life, and no opportunity is afforded the neuropathologist to make post-mortem observations But if the affection be a reflex neurosis, can we hope for microscopy to determine with precision the condition of nervous structure which primarily constitutes the disease?

If we examine the arrangement of the nervous supply of the respiratory passages we find that it is favorable to the existence of reflex nervous phenom-One sympathetic nervous centre, the sphedopalatine ganglion, supplies branches to the lining membrane of the nose, pharynx and Eustachian It has a motor, a sensory, and a sympathetic It communicates with the facial and pneumogastric nerves, thus uniting in the closest sympathetic connection the nose, pharyny, middle ear, laryny and Furthermore, the Schneiderian membrane is continuous with the lining membrane of the nasal duct and eyelids, the pharynx, Eustachian tubes and tympana, the larynx, trachea and bronchial tubes Ablation of the spheno-palatine ganglion sets up a severe catarrhal state of the Schneiderian membrane A congestion once started in this structure may extend with unobstructed facility to the contiguous membranes, very like the spreading of an erysipelatous inflammation from one area of the skin to an-But the continuousness of the membranes as any mortal throughout these various organs does not satisfactorily account for all the symptoms produced in one functional disease of the nervous system is its heredi part by impressions upon another Certainly an inflammation in the throat may extend along the Eustachian tube to the tympanum, but there is no such reason to account for the sudden transitory tinnitus aurium which occurs in some persons immediately upon the ingestion of a draught of cold water or the inhalation of tobacco smoke, or for the cough which is occasioned by the contact of instruments with the external auditory meatus or with the inferior turbinated body or the septum nasi, or for the paroxysm of sneezing produced by irritating the scalp All these symptoms are examples of reflex nervous impulses, and these intimate sympathetic relations between various portions of the animal economy exhibit nating one in this class of patients—an arguthemselves with exceptional force in patients of nervous temperament

ties may be responsible for the existence of common strengthen my position in this discussion asthma, has lately acquired a considerable following periodicity of the disease points to nothing if not to

Instead of look- in America But this is directly in the line of our of a disease which possesses close kinship to hay tacks in hay fever is much the same as in the case of asthma In a hay fever subject let brilliant rays of light fall upon the retina, or dust impinge upon a sensitive area of mucous membrane, and what oc curs? The end organs of the sensory nerves supplying the part affected, being over-sensitive to the presence of that particular kind of stimulus, are in Immediately the impression is flashed Being a functional disturbance, it never along the sensory nerves to a nervous centre-brain or ganglion, thence, changed to motor impulse, it is switched back, on the one hand, along the vaso motor nerves to the blood-vessels of the seat of irritation, causing dilatation, engorgement, swelling and flux, and on the other hand, along the pneumogastric and sympathetic nerves to the muscles concerned in the act of sneezing, and, through extensive sympathetic nervous relations, all the respiratory tract and its connections may participate in the disturbance and become involved in a fully developed attack of hay asthma—sneezing, coughing, wheezing, nasal flux, expectoration and lachrymation

> Thus it appears, from the manner in which parou ysms of hay fever are started and developed, that there are three conditions upon which the existence First, abnormally suscep of the disease depends tible nerve centres, secondly, hyperæsthesia of the peripheral termini of the sensory nerves, and thirdly, the presence of one of a large variety of untating Exclude one of these conditions and the Allay the susceptibility paroxysms are prevented of the nervous centres by certain cerebral sedatives and an attack is averted or arrested the nervous supply of the over-sensitive areas and the result is the same Remove the patient beyond the reach of exciting causes and he is as comfortable

Another fact in support of the theory that this is a tary character I might quote many illustrative cases were there time, but three representative ones will In Dr Morrill Wyman's family there were suffice six sufferers from hay fever besides himself In the family of the Rev Henry Ward Beecher there were two besides himself, and in the family of Chief Justice Shaw there were six members who had different forms of this distressing malady To be sure, heredity alone does not establish a neurotic character, but, taken in connection with all the other facts in the case, it 15 2 weighty argument in support of the assertion that this is a constitutional disorder of a neurotic type

Again, the nervous temperament is the predomi The same may ment which needs no elucidation be remarked concerning asthmatic sufferers, and the The theory that lesions situated in the nasal cavi- admitted kinship of the two diseases only serves to

its nervous nature, for one cannot conceive how the claimed to be cured pollen theorists, from their point of view, can recon- is not a simple local inflammatory disease they will reach the nostrils of sufferers in their vary- well as of the perceptive nerve centres forms of the malady strengthens the nerve theory, while it weakens the pollen argument, for it shows that the disease exists under conditions which are the least favorable to the operation of pollen, in fact, where the pollen theory is inadmissible-in the winter and spring I do not wish to convey the impression that I undervalue the importance of pollen as an exciting cause, but I do wish to be understood as maintaining that it constitutes but one of three factors which render the existence of the disease possible

Other arguments that may be briefly mentioned are the suddenness of the onset and disappearance of attacks, the fact that the most potent palliatives are nerve sedatives, tonics and stimulants, and that fruit, etc

or arrest paroxysms

The chief argument urged against the nerve theory hypertrophies, etc., concurrent with hay fever, is not for the time surprising in this catarrh-producing climate Indeed, the diseased turbinated tissue may be a coincidence or sequence, rather than the cause, for it is natural to suppose that years of constantly recurring attacks of even a functional disturbance of the vaso motor supply of these parts would result in a passive hyperæmia which would eventuate in proliferation of cells in the mucous and submucous tissues, and the growth reception and retention of irritating agents argument that this condition is responsible for hay Association fever in infants, youths, and even in adults in whom there is no evidence of inflammatory changes before the expression may be permitted hay fever, and many cases have been so treated by American physicians during the last three years However, the most sanguine practitioners of this Cases that were supposed to have been phasize the truth in the nerve theory the results cured still suffer

This points to the fact that it cile this feature of the complaint with their own doc- were the treatment should be attended with success Is it reasonable to assume that the pollen of For reasons which I have set forth one cannot expect various plants which give rise to attacks in different this method to cure all, but, granting that it may cure individuals will be set free to float away on their fruc- many, the nerve theory would not suffer in the least tifying pilgrimages on exactly the same day, and at by the admission, for it assumes a pathological connearly the same hour, each recurring year, and that dition of the receptive end organs of the nerves as ing localities and situations and vocations simultane- the susceptibility of either the central or peripheral ously year after year? The variations that occur in nervous system, and you remove an essential element the yearly advance of the seasons preclude this hy- in the disease-destroy its entity. But what shall we And again, the identity of the different say of that other large proportion of patients in whom paroxysms are produced by irritation of the retina, the scalp, etc, or by chilling of the skin? Are we to be logical and, reasoning from analogy, must we destroy the sensitive area, the retina, enucleate our patients' eyes, scalp or skin them! Yet, if you follow the reasoning of this school of theorists to its logical conclusion, it will lead you to this reductio ad absurdum

The neurotic theory is supported by the nature of the following causes Electric and gaslight, overexertion, anxiety, indigestion, dampness, chills, camphor, gases, feathers, perfumes, odors from animals, dry, hot and impure air, various kinds of It will be observed that pollen and dust mental emotions and physical exertion may prevent do not necessarily enter into the causative nature of these excitants

This theory receives support also from the fact is that many hay fever patients have diseased nasal of the excessive irritability and nervousness which But we may say the same of that much patients experience just preceding and during atlarger proportion of our population who have no tacks. The coordinate action of muscles is affected, knowledge of hay fever. That we should find nasal and they complain of feeling jerky and ill-tempered

In studying this disease it should not be forgotten that the statements of sufferers relative to the history and phenomena of their maladies should be given greater credence than is usually accorded the assertions of other classes of patients, masmuch as they enjoy the distinction of being superior to the average in intelligence and culture This is far from being an idle assertion, for it voices the experience of the best of hypertrophies which might serve as a midus for the authorities and is borne out by a reference to the list But the of membership of the United States Hay Fever

I cannot consider the treatment of this subject as approaching completeness without referring briefly to or between attacks, is not tenable The paroxysms two other important points Microscopists have been do not so much resemble symptoms of an inflamma- recently examining the nasal and bronchial secretions tion as they do an irregular and explosive discharge from hay fever and asthmatic sufferers, with the result, of a superfluity of nervous force—a nerve storm, if it is claimed, of establishing the kinship of the two It has been diseases by demonstrating the presence in both of claimed that destructive treatment of the sensitive products called gravel It is believed that this soareas in the nasal cavities would permanently cure called gravel accumulates in the secretions of the respiratory passages, and acts as a local irritant, in the same manner that any foreign body would

The force and analogy apparent in the following method have recently confessed disappointment at facts relating to neuroses of the skin serve to em-Others are only slightly benefited, ing over the surface of the whole body may be prowhile a few are worse for the operations So far as I have been able to obtain definite data, they demonstrate that not one-half the number treated are liver, etc Neumann says "There is no doubt that a large proportion of cutaneous diseases depend upon disorders of the vaso-motor nerves which cause certain derangements of circulation in the arteries, veins and cutaneous glands Anæmia and hyperæmia of the skin happen from vaso-motor irregularities, some from the brain, some from the spinal cord, or from the action of cold, or the electric current, etc." Now, since it is admitted that there are both immediate and reflex functional nervous disorders of the recorded facts skin, with what show of reason can it be denied that there are similar neurotic disturbances of that other reasonable evidence that the products of, or emana skin which covers the interior surfaces of the body? The latter membrane is more vascular, more delicate, more sensitive, more highly organized than the skin It possesses susceptibility to all agents which affect the skin, and to many others besides For example, notious gases, to which the skin is insensible, will irritate the mucous lining of the respiratory organs The same laws that govern the action of the vasomotor nerves of the skin also regulate the vaso-motor If itching and supply of the mucous membranes burning of the skin are produced by morbid alterations in the ovaries, so is pruritus urethræ produced by disease of the bladder, pruritus nasi is generally accepted as a sign of worms in children, urticaria Koch's work, found in the second volume of the Im results from irritation of the gastric or intestinal mucous membrane, so may asthma arise in the same manner or from an irritant applied to the post-nasal mucous surface, ear-cough is occasioned by contact of instruments with the skin of the external auditory canal, and hay fever paroxysms result from irritation of the retina, the upper hp or the scalp, or from chilling the skin

Finally, all the facts in our possession force us to the conclusion that the weight of testimony is in favor of the doctrine that hay fever is a reflex functional

nervous disease 719 W Adams St

THE PORTAGIOUSNESS OF PHTHISIS

Read before the Medical Press Association, of St Louis, January 30, 1888

BY WILLIAM PORTER, MD,

PHYSICIAN TO ST LUKES AND TO THE PROTESTANT HOSPITAL CON SULTING PHYSICIAN TO THE ST LOUIS CITY HOSPITAL, ETC

Before entering upon the discussion of the subject proposed, permit me brief reference to the terms I have chosen the word portagious because it conveys a more exact idea of the manner of transmission of phthisis for reasons hereinafter mentioned, than either contagious or infectious this writing the term phthisis will be used to denote that class of disease to which belongs the large majority of cases of slowly progressive pulmonary inflammations, ie, chronic tubercular phthisis

Pardon me if I decline to enter into a discussion of the relation of the bacillus to phthisis somewhat closely following the investigations of recent years, I cannot conclude whether the bacillus is the cause or product of tuberculosis Cermade, based upon the hypothesis that the microbe is absorption of phthisical matter is a potent cause of a factor of phtasis per se, but rather is our advance phthisis

continually upon the old lines of aiding assimilation, diminishing waste and caring for the hygienic sur roundings So far as our present knowledge ex tends, the bacillus is to phthisis as smoke to fire, it may indicate its existence, but neither incites nor in tensifies the combustion Whatever the develop. ment of theory may do for us in the future, let us this evening limit ourselves to deductions made from

The question I would ask you is Have we tions from a phthisical subject, may be carried to, received by, and cause like disease in one previously free from phthisis?

Believing that the weight of testimony is with the affirmative I will offer the results of

- I Some experiments made as to the transmissi bility of phthisis
 - 2 The practical experience of others, and
 - Personal observations
- I In experiments made by Tappeiner, in 1883, tuberculous sputa being inhaled by eighteen healthy animals, tubercles in both lungs, and pleura were That record of afterwards found in seventeen perial Health Reports, shows that after the inhala tion of material from phthisical cavities, the rabbits and guinea-pigs under observation, had within twenty-eight days, tubercles throughout the lungs of all, and in the liver and spleen of some It is true that many of the masses in Koch's description re semble caseous broncho-pneumonia, but this is also to the point according to the definition of phthisis which we hold

Wargunin, of St Petersburg, in 1884, showed by experimental research in three series of cases, that the nodules of broncho-pneumonia resulted not only from the inhalation of phthisical sputa, but also from other foreign substances

The proposition that tuberculous phthisis is an in fective malady was endorsed twenty years ago by Villemin and Chauveau, who labored to demonstrate that inoculation of tuberculous matter only, would produce tubercle, while Sanderson, Fox and others, claimed the same results from the introduction of other material

Martin, of Paris, within the last few years, how ever, after a number of experiments, which I may not detain you to describe, (Rev de Médicine), seems to have established the following conclusions

(a) Tubercle moculated locally, determines, after incubation, and after a variable time, general tuberculosis, and the virus seems to acquire increased activity by inoculation in series of animals of the same or allied species

(b) But, if we inoculate matter obtained from those tubercles secondary to the injection of non tubercular foreign bodies, it never gives rise to general tuberculosis, and after two, or at most, three terms of the series, it even loses the power of producing a local reflection. ducing a local inflammation

Though we were to admit that Wargunin, Sander son, and Fox have found tubercle to result from in oculation with non-tuberculous material, we would still be justified in maintaining that the inhalation and

The carefully conducted investigations of Cadeac and Mullet recently published, show that while no positive result was obtained from compelling rabbits and guinea-pigs to inspire air exhaled by phthisical carrying particles of sputa, two out of twelve guineapigs acquired tubercle

Permit me to refer to an experiment of my own

Three healthy guinea pigs were selected One was moculated with phthisical sputa, and placed in a small box with one of the The third was confined in a box in an adjoining room They were cared for alike and had similar food In four weeks the first one died, and the examination showed tubercle in the lungs, and a large cheesy gland near the point of inoculation Three weeks after the second animal sickened and was killed I found small granulations scattered through both lungs, at some points aggregated, and in the right lung were two nodules, having a soft cheesy centre

The third guinea pig, examined three months later, had no evidence of tubercle or other disease

The only experiment, so far as I know, upon a human subject was made by Drs Demet, Pararky, and Zallories, of Syra, in Greece, who inoculated, with sputa from a phthisical patient, a man whose history afforded no suspicion of tubercle, and whose lungs were healthy, but who had gangrene due to femoral embolism and who would not permit ampu-In three weeks auscultation revealed evidences of disease at the right apex Thirty-eight days after the moculation, the man died from gangrene, when it was found that the upper right lobe had seventeen small tubercles and two granulations in the apex of the left lung

2 What has been the practical experience of others? One of the most valuable labors of the Collective Investigation Committee in London, is that relating to the transmission of phthisis While the majority of replies to inquiries were unsupported negatives, 261 answers coming from physicians in family prac tice affirmed the proposition that phthisis may be communicated from the sick to the well, and evidence was given in proof of the statement hundred and ninety-two observers recorded cases where both husband and wife became phthisical, in 130 cases there being no phthisis in the family of the one to whom the disease was thought to have been transmitted

Some of these cases were very interesting Dr Spriggs, of Great Bedford, instanced the case of

Miss R, aged 48, a dressmaker, who, hving in rather a lonely cottage at C, Bedfordshire, had three apprentices, young girls from 17 to 19 years of age, not related, from three adjoining villages, who took it in turn to remain in the house and sleep with her, each one week at a time During their apprentice ship, Miss R was taken with phthisis, of which she died In less than two years afterwards, all three apprentices died of phthisis, although in the family history of each, no trace of phthisis existed, and the parents, brothers and sisters of two are alive and well at this time

Another interesting case is related by Mr G F Blake, of Mosely, Birmingham, in which a perfectly healthy child, with a family history free from all trace of tubercle, is reported as becoming infected hemoptysis, after the disease had run a rapid course

The following cases were reported to the Clinical Society of London, by Dr Herman Weber

A young man who had lost his mother, two brothers and a sister, of phthisis, and who himself had twice had hemorrhage from the lungs, had quite recovered, and married at 27, being then perfectly well His first wife was in good health, and came of a healthy family She died of consumption after her patients, yet when air was used collected from near third confinement. The man shortly married again, an "ap the beds of hospital inmates, the air presumably parently healthy woman," and this second wife, after a year of married life, died of "galloping consumption". He again married life, died of "galloping consumption". married a healthy young woman of 25, belonging to an 'ex ceptionably healthy family" During her second pregnancy, she developed symptoms of phthisis, which run a rapid course, and ended fatally in about eight months Undaunted, this man married a fourth wife, a perfectly healthy woman of 23, of healthy antecedents Three months after her first confinement, she began to show symptoms of phthisis, and notwithstanding two sea voyages, died after nine months, with tubercle in liver, spleen, and intestines, as well as in the lungs Though the husband of these four wives, who was a sailor, remained in ap parently good health, physical examination revealed the exist ence of morbid changes about the apex of the left lung

It is possible that the life at sea kept his disease in abeyance,

for when he had to lie by on account of a severe fracture, the disease became active, and he died of consumption within two

A convincing report of a case in which the portagiousness of phthisis is affirmed, served as an introduction to a valuable paper last year by Dr F I Knight, of Boston, and who has not read the evidence offered upon this subject by Webb

I need not further collate records, for you gentlemen, being conversant with medical literature, will grant that new and strong proof of the proposition which we have announced is being constantly given

What have been our own observations?—In more than three hundred cases of phthisis, I have kept a record of the family history, and find that 51 per cent of this number were of families in which some other case had occurred The inquiry extended no farther than to first cousins this would be accepted as evidence in the favor of heredity of phthisis, but I now believe that in many of these cases the disease was acquired by the carrying of the products of disease to a subject whose physical condition favored its reception and development

I recall the case of Mrs L, in whose family was no trace of phthisis Before her marriage, and for several years after, she was the ideal of a healthy Two children were born Her husband, a well-known city official, had phthisis Her attendance upon him was constant, and for some months before his death she and the younger child were with him night and day When called to attend him I found that he had been substituting for the ordinary cuspidore, a newspaper spread upon the floor at his bedside, and this would be loaded with sputa each The case was rapid morning The husband died, and within eighteen months Mrs L and the younger child also died from phthisis, while the elder daughter, who was comparatively little in the sick room, still lives and is well and strong I have the notes of other instances almost as instructive, but this will suffice

From such facts as I have endeavored to give in by a phthisical nurse, and having died with profuse this paper, I believe it is fair to concede the probability of the portagiousness of phthisis

3 How then can the disease be conteyed?-In two ways mainly First, By air carrying particles of disease into the respiratory tract Second, By food from infected sources, through the alimentary tract. The first of these propositions is, I think, proven. Not only are the experiments and records here given, powerful affirmations, but there is in the profession a steadily increasing belief in its truth which would require much more negative testimony than has yet been offered.

I would not be misunderstood I do not think that as yet we can sustain the statement that phthisis is contagious—acquired by mere contact, or infections, if the term be limited to imply a hidden subtile miasm communicating the disease—but I do hold that particles of matter from the site of disease in a phthisical patient may be carried, planted in suitable soil and incite phthisis I cannot think that all are liable to so acquire the disease

I would go further, and say that probably only those may so contract phthisis, who by reason of lowered vitality, through previous sickness or long watching in the sick room, or those who have local congestion or inflammation in the respiratory tract. The fixation of a minute particle of dried sputum from a phthisical cavity, upon a point of irritation in the respiratory tract of a non-phthisical patient, may constitute an effective inoculation. This leads me to express my belief in the possibility of auto-inoculation—in so far as the debris from a tuberculous lung coming in contact with the laryin denuded of epithelium may cause laryingeal tuberculosis

The second proposition that phthisis may be caused by eating the flesh of tuberculous animals, or drinking the milk of tuberculous cows may also be received with the same limitations as the first ie, that there are conditions which favor the development already existing in the individual, and as Mr Law, of Cornell University has well said, this embraces such a large class that the interests involved are almost illimitable

I will not detain you by detailed suggestions as to our duty if the position maintained in this paper be true. There should be frequent change of the atmosphere in the sick room, complete disinfection of all clothing or vessels holding expectorated material, and the close confinement of any relative of, or attendant upon a phthisical patient, should be forbidden

I also believe the day is at hand when the physician will recognize that it is as much his duty to examine the food that his patient eats, or the milk that is ordered for the sick child, as it is his province to see that the drugs he prescribes are pure and well compounded

2830 Locust St

EDUCATION AND REGISTRATION OF PLUMBERS—There is a concerted movement on foot in England and Scotland for the better education and the registration of plumbers. In connection with the national movement large meetings have been held in Edinburgh and Dundee, and representative men have been appointed to form local councils. In Edinburgh Sir Douglas Maclogan is identified with the movement.

MONOCULAR DIPLOPIA WITHOUT MANIFEST LESIONS OF THE AFFECTED EYE

Read before the Chicago Medical Society, February 6, 1888

BY ROBERT TILLEY, M D,

OF CHICAGO, ILL.

In October, 1881, Mr James E Adams, of Lon don, England, brought before the Ophthalmological Society of Great Britain and Ireland the subject of uniocular diplopia. The question was confined to the existence of the phenomenon in the absence of any abnormal condition of the iris, lens, vitreous, fundus or any marked error of refraction of the affected eye, the question resolving itself into this, is it possible for an eye, not the subject of any manifest deformity to project two images of one object? or are two mental conceptions possible from one impression on the retina?

Mr Adam's attention was directed to the subject in connection with a suit for damages against a railroad company by a "hysterical woman" This occurred in the spring of the same year, 1881 The symptoms said to have existed in the case were, insensibility, coming on half an hour after an alleged railroad injury, lasting for three or four days, followed by vomiting, then convulsions, then convergent strabismus lasting for some weeks At the time of the examination by Mr Adams

both eyes were normal in all respects, the excursions of each separately were perfect and all the associated movements good. She declared that with the right eye she saw two distinct images of a pencil held at twenty inches, separated by an interval of some inches and on the same plane

He further adds that he has since seen a little boy with a high degree of myopia who claimed to be the It is definitely subject of the same phenomenon stated, however, that this phenomenon was observed in the right eye only when the left is closed No statement is made, however, as to whether the closure of the non-affected eye in the woman's case was necessary to develop the phenomenon said to have perceived images of double the number of small objects, such as coins that were placed before him, only, however, when the left eye was closed Mr Adams, erroneously I think, supposed that with a prism placed base upwards or downwards before the non-affected eye the boy should have, if he were not simulating, seen three objects instead of two He sums up his remarks by saying that,

Up to the present time (1881) he had never met with a case in which uniocular diplopia, in an eye that was physically perfect, was alleged to exist except under circumstances where there was strong ground for doubting the validity of the patient's state ments.

It would have been pertinent to have asked if Mr Adams had ever before seen a case in which uniocular diplopia was claimed without lesion of the affected eye. He further states that after the receipt of the claimed damages she speedily recovered, but the statement is too indefinite to be of any scientific value. He does not say that he saw and examined who woman, nor does he refer to any one else who

At the same meeting of the Society, Dr O M

Ord narrated in full two cases of uniocular diplopia The one case, a man of 28, may be subject to a certain amount of doubt, and apart from other cases would be of but small value But in consequence of the agreement of this case in certain particulars with other cases in which there can scarcely exist a justi-blood-clot from the ventricle fiable scepticism it is not without value for com-

In neither of the cases referred to by Mr Adams is any mention made of external paralysis, in fact, we are assured in the one case that it did not exist, although according to the woman's claims it had existed and her statements coincide with the observations of others in later cases, and in the other we are justified in assuming that it did not exist at the time of ob-

In the first case mentioned by Dr Ord we have the existence of paralysis or paresis of the external recti distinctly stated There is in this case no mention made of the condition of the iris, although in all probability the pupil was dilated We are led to infer, although it is not stated in so many words, that when both eyes were used he was the subject of ordinary diplopia arising from the feeble or paralyzed condition of the external recti, but no direct statement is made that he saw quadruple images You will remember that says an important peculiarity the closure of the non-affected eye in the case of the boy referred to by Mr Adams was necessary to the development of the phenomenon

The second case reported by Dr. Ord was a school boy admitted to St Thomas' Hospital September 3, 1879, 13 years of age And strange to say, the preliminary symptoms are in some respects very similar to the first case referred to by Mr Adams The boy it is true had an epileptic fit He was quite uncon-No general paralysis followed, but he remained drowsy, and for four days had constant vomiting, and both external recri acted imperfectly. There is no note made that the boy ever saw four images when both eyes were open, and there is no statement The movements of the eyes caused that he did not pain and the pupils were widely dilated Mr Nettleship, of St Thomas' Hospital, also examined this boy and says

I began by simply disbelieving the boy's statement, but re peated and varied trials by others as well as myself, left little doubts that at any rate the boy was sincere in his statements

It will thus be recognized that the phenomenon, if it exists, is an unusually rare one and that it devolves upon any one who presents a case to detail the most

minute particulars

This boy was again, later, admitted to the hospital, and was under Mr MacCormac's care for an abscess on the back of the neck Nothing was then known of his previous history He died quite suddenly Nov 20, 1880 The post-mortem examination revealed in the right cerebral hemisphere, in the normal position of the right lateral ventricle, an old blood clot, having a slight attachment at its lower surface It was egg shaped, about 21/2 inches long and 1 inch

closed with a continuation of the blood-clot blood clot was practically a tumor, was distinct and separate from the right lateral ventricle, but it had displaced the ventricle considerably to the left, there was a half inch of tissue separating the space of the

At the same meeting Dr John Abercrombie reported a case that was under treatment at the Hospital for Sick Children, Great Ormond Street, in the month of July, 1881 The previous history of two months gives a record of headache, vomiting, peculiarity of speech, loss of power on the right side for two months, squint for three months, had chorea, no rheumatism, no convulsions Mother died of cancer, father said to have fits One more child of the family "healthy '

The interesting feature for the present study is the existence when admitted to the hospital of paralysis of the right external rectus, slight internal strabismus of the right eye, no ptosis

Sees double with both eyes and also when right eye alone is used. The false image is always above and to the left of the

No mention made of the condition of the pupils Optic discs obscure, right paler than left, veins in This is both eyes turgid and tortuous Dr Abercrombie

> During the next few days she was repeatedly examined with regard to diplopia, but the result was always the same, viz when the left eye was closed her sight was normal

> July 28, unconsciousness developed, slight convulsions, pulse very frequent, breathing irregular, eyes fixed, staring pupils, moderately dilated—death

> The autopsy is so significant and the publication in which it appears so little circulated that I give it verbatım

> Autopsy 161/2 hours after death Body weighed 441/2 pounds Rigor mortis marked Calvaria and dura mater natural Con volutions flattened, especially in the right posterior region Surface of brain dry and sticky, the two hemispheres adhere to each other, corpus callosum arched Pia mater at base rendered opaque by recent exudation of greenish lymph, a thin layer of which envelops pons Varolii, and causes gluing together of me dulla oblongata and cerebellum The exudation of lymph ex tends into each Sylvian fissure

On cutting into the right hemisphere the white matter in the region of the temporo sphenoidal and occipital lobes is found to be broken down and a large abscess cavity takes its place con taining some ounces of laudable pus, the descending cornu of the lateral ventricle is filled with pus and leads directly into this abscess cavity, the lateral ventricles otherwise are dilated and

filled with a thin slightly turbed fluid

Left hemisphere, cerebellum, pons Varolii and medulla ob longata, natural, left optic disc swollen, margins ill defined. Both lungs show slight hypostatic congestion. A little thickening of mitral valve. Alimentary canal, liver, spleen and kidneys normal. Some of the mesenteric glands a little enlarged and cascous.

Dr Abercrombie adds that there is not the least reason to suspect this child of malingering examined on different occasions without anything occurring to lead us to doubt her veracity I think, therefore, we may accept it as a fact that she had double vision with the right eye

In May, 1884, Mr Marcus Gunn and Dr J Ander-A small aneurism the size of a pea was found son again brought the subject before the Ophthalmo-1/2 of an inch below the blood-clot. The blood vessel logical Society of Great Britain, with the presentation connected with the blood-clot, but the lumen was of another case, and on the same occasion Dr

Brailey and Messrs Juler and Nettleship referred in brief to the cases under their care

The case reported by Mr Marcus Gunn and Dr Anderson was a painter, at 34 years There was paresis of the left external rectus, there was the usual homony mous diplopia of abducens paralysis, but also double images with the left eye when the right eye l'ension in both eyes normal, pupils unequal, left larger, both acted to light and accommo-On looking upward the right globe made a normally on accommodation slight excursion inward on its way, and when he looked to the left his right eye was directed very eye On examining her the first time, suspecting some slightly upward as well as to the left spects the movements of the eye were normal There left eye, I asked her if she ever saw two objects in was no nystagmus was normal-nothing visibly wrong in the cornea, aqueous, 11.5, lens, vitreous, or fundus Examination her statements revealed the diplopia to exist over the left half of the field of vision and also over the upper part of the right half, the images got farther apart as the object It was not possible to obtain neared the periphery the perception of three images by the aid of prisms This patient was also examined by Dr Nettleship There was no reason to suspect the patient of simulation

A detailed history of this case is given in the re-It involves so many nervous lesions that, although syphilis was denied on the part of the patient, and no demonstration of lesion could be made, he was subjected to anti-syphilitic treatment, and so far improved that the diplopia and the paralysis of the external rectus disappeared He was still occasionally subject to attacks of unconsciousness, which were called "fits"

The cases of Mr Nettleship, Mr Juler and Dr Brailley were all associated with paresis of the external rectus and dilatation of the pupil

I will now give the details of a case at present under my observation which gave rise to my presen-

tation of the subject

Mary R, 9 years, orphan, no family history obtain-When she was brought to me her face presented an appearance of great distress, a suppliant Appression, her step was cautious, as though afraid of jarring her head. The left eye was kept partially closed, not from ptosis, but from the action of the orbic- lation would give 450 ularis muscle She complained of severe pain in the oration of the girl's veracity, as the discrepancy could infra-orbital region, greatly aggravated on pressure over the infra-orbital foramen. There was increased pain on even medium movements of the eye, so much so that she would move the head rather than the eye The pain, apart from the infra-orbital region, was located rather in the region of the external rectus, and the position of the pulley of the superior oblique There was no paralysis of any of the muscles demonstrable, and even paresis was very questionable When the eyes were directed upward the left eye turned inward and the effort was associated with great indicative of a pain in the muscles, developed by an non was not noted before the influence of the atropia. effort at contraction. There was a headache which It was not definitely noted that it did not exist, but she said came on every other day. There had been I think I should have noted the fact when measuring and there was no other endered. If and there was no other evidence of any malarial the distances of the extra images from the object, if affection

There was a very slight amount of conjunctivitis of the left eye only, no blepharitis, no other external lesion; cornea, aqueous, iris, lens, and capsule, vitreous and fundus were all normal, and there was no detach There had been no complaint ment of the retina made about the right eye, nor did it present any lesion

V with both eyes together and each eye separately, 76, N V S o 6 Pupils normal in every respect, contracts quickly under the influence of light, and

She persistently claims double vision with the left In other re- difficulty in the form of paresis of the muscles of the In other respects the left eye stead of one "With this eye I do," she said, pointing to the left Quite skeptical, I proceeded to examine

When a probe was held vertically before her at a distance of 50 cm she said she saw two, the extra image being projected toward the median line, and a little less clear She pointed to its location definitely When, however, the probe is held in a horizontal posi tion, she located the extra image as above the object The double images do not change their relative distances when moved toward the nasal or temporal sides, nor when the object is moved up or down, only the observation is less satisfactory on account of the discomfort associated with the efforts at movement

However the experiment was varied, she invan ably gave evidence of double vision with one eye When one, two, or three coins were placed before

her, she saw two, four, or six

It occurred to me to measure the relative distance of the extra image when looking at a near object and one that was more remote Of course such a calcu lation would be a good check on the accuracy of her The principle involved being the distance answer of the extra image from the object at one metre should vary directly as the distance of the extra One measurement which I image at six metres made before using atropine gave me a displacement of the extra image to the nasal half of visual field of 075 millimetres at a distance of one metre, and at six metres the displacement, according to her location, The theoretical distance on calcu 400 millimetres This I considered a corrob well be referred to maccuracy of my crude measure It would have been impossible for a child of 9 years to have calculated so near in the absence of some actual sensation similar to what she claimed

Atropine was applied to the eye, and observations were made two days later when the eye was fully atrophized, the pupils dilated ad maximum, and the accommodation completely mactive answers were given to the same questions, only now she located the extra image not only in the nasal and upper half of the field of vision, but as quite a good deal nearer to her than the object

The vision of the left eye, under the influence of atropia, required a lens S+r D to restore the visual acuity that she had before, showing a slight amount of latent hypermetropia. With the S+1 oo D, however, vision was 6 as before No satisfactory explanation was obtained relative to the deficiency of visual acuity, whether it might be referred to retinal asthenopia or cortical asthenia

The exact displacement of the extra image at one metre during the influence of the atropia was difficult because of the above-mentioned fact that the extra image was nearer to the eye than the object, but approximate measurements gave the distance at one metre to be 65 millimetres and at six metres the distance of the extra image was claimed to be 330 Theoretical calculation would have It will be remembered that under given 300 mm atropia the extra image seemed less distant than the actual object when near objects were under observation, but the phenomenon did not exist when looking at an object at a distance of six metres occur to me to inquire at what distance this phenomenon ceased to be observable

Pursuing investigations further I found the girl to be completely red blind She had no conception of any difference between greens and greys, purple, blue and violet she put together as similar colors

The observations were made at intervals between November 12, 1887, and December 4, 1887 December 4, when in church, she felt that she could neither speak nor breathe, and then she was uncon-Convulsions followed which were said by the Sisters to have lasted four hours After a period of consciousness the convulsions were renewed the same night and said to have continued for a similar After this she felt pain all over the body Confined to the bed December 8, at a consultation with Dr D W Brower, Professor of Nervous and Mental Diseases, at the Woman's College, the double vision with one eye was demonstrated 13, has been frequently delirious since last record, cannot keep anything on the stomach When delinous complains of pain on the top of the head Buries her head as much as possible in the pillows has scarcely varied from the normal December 15, has been very restless-slapped and tore the hair of her little attendart All at once she became better She slept well, complained of no pain, and ate her food, and the vomiting ceased For the first time since she has been under my observation she can now look up without experiencing pain mydriasis, no lack of accommodation, and no paralysis or paresis of the external ocular muscles

She still sees double with the two eyes open and with the left eye alone, the false image referred to the same position whether the right eye is open or closed It is always in the nasal and upper half of the visual I could not get her to acknowledge any inclination of the images

December 23, she left the institution in charge of the Sisters, and the Sister in charge reported she mentally

As she did not return to school, January 19, 1888 I visited her at home I found her afflicted with abscesses all over her body, some under the arms and on the forearm The left eye was giving her no pain, but the double images were present, and a pain which she said was similar to the pain which she experienced in the left was appearing in the right eye

I do not expect to see her again, I close the report The etiology, pathology and location of the cerebral lesion are all involved in so much obscurity

that I shall add only a few words

The similarity of the main features of the case to the two cases above referred to made me suspect from the first time I saw the child the existence of either brain tumor, or abscess The location of the tumor or abscess, simply from the two autopsies referred to above, I referred to the right cerebral hemisphere, in such a position as to encroach on the lateral ventricle I have no theory whatever to present relative to the possibility of double images under the circumstances The development of convulsions and their persistence at intervals with the associated vomiting strengthened that opinion The increased severity of the symptoms on the 14th, and the sudden improvement, made me suspect an abscess and its rupture into the third ventricle The development of abscesses over the body in about two weeks after the sudden improvement, made me suspect that these abscesses were of a metastatic character As to the character of the primary abscess, I have not sufficient data to justify any conclusion, and the want of education on the part of the person in charge of her precludes investigation

APEX EXPANSION VERSUS PURE AIR IN PULMO-NARY CONSUMPTION

December Read before the Philadelphia County Medical Society Febru ary 22, 1888

> BY THOMAS J MAYS, M D, OF PHILADELPHIA

Next to the tubercle bacıllus, impure air stands Pulse has varied from 60 to 75 and the temperature most prominent among the many agencies which have been assigned as the causes of pulmonary consumption Innumerable plans and methods have been devised and proposed for improving the ventilation of our dwellings, hospitals and workshops, volumes upon volumes have been written on the ill effects of breathing vitiated air, and the immaculate freshness of the country and mountain air has come to be universally regarded as a certain guarantee against pulmonary consumption These, like many other popular notions, contain a germ of truth, but actually are delusive, masmuch as they exaggerate the effects of a small evil, and afford a false sense of security against the real source of danger in the production of this disease This we shall endeavor to show in the following pages

At the very outset we desire it to be well understood that we do not in the least underrate the value seemed well as ever but less active and less capable of fresh, wholesome air in the prevention and treatment of pulmonary consumption, and while it is probably true that on the whole country people en-10y greater immunity from this disease than city people—though this is not proven, on account of a lack of adequate statistics—yet we are convinced that the purity of the atmosphere plays a very small part in bringing about this probable result If we are permitted to make a homely, hypothetical proposition, we will state that if two individuals who respire the same quantity of air, and who are equally well | known among any native people who live more than off so far as heredity, food, clothing, warmth, comfort, etc, are concerned, were both enjoined to maintain a sedentary and a stooped position of their bodies for an unlimited period, one inside of a house and the other outside in the open air, we have no reason for believing that the one inside will fall a victim to this disease sooner than the one on the outside

If it were true that this disease is the result of breathing a vitiated and impure atmosphere, how can we account for the fact that the inhabitants of Iceland, Greenland, Lapland, and of other cold countries of the north, who live in dwellings which are notoriously wanting in ventilation, are practically exempt from this disease? Of the Icelanders, Mr Warnford Lock, who is very familiar with these people, says that their life is

"one long exposure to the elements, and during the night they live in dwellings devoid of ventilation, and which, if not buried beneath the earth, are built of turf and often become grass grown. A very bad feature being the excessive stuffiness of the common living and sleeping room, when, owing to the ab sence of fires, the greatest possible crowding and plugging are necessary in order to maintain a tolerable degree of warmth "

And yet Dr Cullimore," from whose work the above quotation is taken, says (p 73)

"that consumption in Iceland is never indigenous, but is al ways, when it does occur, imported from abroad and but sel dom extends to the second native generation "

On the other hand, it may be stated that the people of the tropical regions of the globe who enjoy an uninterrupted reveling in pure, fresh air, both day and night, winter and summer, are by no means free The only difference, from pulmonary consumption so far as the physical life of these two classes of people is concerned, is that the warm climate, which produces such a luxurious atmosphere, also creates a tendency to physiological sluggishness and an indisposition toward physical exertion among its inhabitants, while the people of the cold and rigorous north are compelled to maintain the warmth and vitality of their bodies in great part, by day, through physical exercise, of which their occupations of hunting, fishing, herding, etc , give them a full share is also well known that miners and laborers employed in coal mines, who continually respire an atmosphere loaded with impurities, and damp and musty, suffer but very little from this disease

One fact which lends color to the belief that pure air is such an essential element in limiting the ravages of consumption, is that those who occupy elevated or mountainous regions are less liable to this disease than those who live near the sea level Thus Fuchs shows from extensive data that

"at Marseilles, on the seaboard, the mortality from this dis case is 25 per cent, at Oldenburgh, eighty feet above the level of the sea, it is 30 per cent, at Hamburg, forty eight feet above the sea it is 23 per cent, while at Eschevege, four hundred and ninety six feet above the sea level, it is only 12 per cent, and at Brotterode, eighteen hundred feet above the sea, it is but 0 9 per cent "

Carrying this line of observation further, it ap pears very probable that consumption is almost un 6000 feet above the level of the sea

Now that which concerns us here chiefly is the reason why mountain climates are, as a rule, so free from pulmonary consumption Is it because the atmosphere is pure and free from septic germs? This is hardly possible, for if it were true that the asepho condition of the air played any very prominent part, why should the Icelanders, who nightly reek in a most filthy atmosphere, or the dwellers along the Nile, who, according to Mr B Phillips, live "in huts where the pure air has neither ingress nor egress, ex cept through a small hole near the ground," or the coal miners, who continually respire a foul and poisonous atmosphere, all be comparatively free from this disease? Is it due to the general absence of humid ity? We think not, for Bogota, the capital of the United States of Colombia, located on the Andes, near the equator, and at an elevation of over 9000 feet, is said to be entirely exempt from this disease, although dampness prevails to quite a large extent We think there is much reason for believing that it is principally, if not entirely, on account of the at tenuated condition of the atmosphere, and shall, therefore, at once proceed to consider the physiolog ical influence of high altitudes on the human body

It is estimated by Dr Denison that at an eleva tion of 6000 feet the surface of the body is relieved of nearly 7000 pounds pressure When such an en ormous weight is lifted from the body it is quite evident that its interior must also be markedly af fected—the pulse is accelerated from fifteen to twenty beats per minute, the respiration is quickened from ten to fifteen breaths per minute, evaporation from the skin and lungs is increased, and the amount of These are some of the imme urine is diminished Protracted residence in such a high diate effects The Quichua region enlarges the chest capacity Indians, who dwell on the elevated table lands of Peru, have enormous-sized chests, containing capa cious lungs with large air cells The Mexican In cious lungs with large air cells dians possess chests which are out of proportion to the sizes of the individuals Dr Denison says that children born in the Rocky Mountains have chests of unusually large capacity, and M Jaccoud states that at St Moritz the respirations are not only more frequent, but fuller

The reason why the number of respirations in crease while ascending a high elevation becomes clear when we take into consideration the fact that at the sea level a cubic foot of dry air contains about 130 grains of oxygen, while at an elevation of 6000 feet it contains only about 106 grains—nearly 25 per cent less than the body is accustomed to breathe at or near the seaboard—therefore, in order to sup ply the wonted amount of oxygen to the body, the

¹ The Home of the Eddas S Low, 1879
2 Consumption as a Contagious Disease Ballière, Tindal & Cox, 1880

respirations must either increase in number or in ex-From all accounts it is very probable that respiration becomes accelerated only during the early period of exposure to such an attenuated atmosphere, and that subsequently this function becomes slow again because the air penetrates more deeply and completely into lung tissue but little util-1zed before

That man does not suffer under such a deprivation of oxygen is evident from what we know to be true of his lung capacity under ordinary conditions of Prof Mosso has recently proven experimentally that man possesses a lung capacity which is nearly one-fourth larger than the actual necessities of life at the sea level demand, hence by employing his whole lung capacity he can extract a sufficient amount of oxygen from this attenuated atmosphere without difficulty And herein lies the secret why so many consumptives and others with weak lungs, denve such a great benefit when they resort to a mountain climate It may be trite, but it is nevertheless true, that all consumption practically begins at the lung apices, because these parts are habitually They are mactive because, in the first place, the bronchial tubes are so arranged that they conduct the air with greater facility to the base than to the apex of a lung, and, in the second place, because the lung is larger than necessary, hence the base, which is filled most readily, is filled first, and the apex, if at all, toward the end of inspiration The apices, therefore, become the superfluous parts of the respiratory organs It is quite different, however, when the body is immersed in a highly attenu ated atmosphere Every available space in the chest is now brought into requisition to furnish the needed amount of oxygen, the apices are called out of their lethargic state, and the alveoli are inflated, and if the infiltrated areas are not dispersed the surrounding alveoli are kept permeable, and so the disease is, at least, limited and called into abeyance

This statement is corroborated by those who have pulmonary consumption Thus Ruedi⁸ reports "that of 600 consumptives under his care at Davos, expansion of the thorax took place in no less than 584" Dr Denison says "the increased circumference of the chests of consumptives after undergoing the high altitude treatment is shown in many of Prof Weber's, as well as in my own, cases " Dr Lindsay, in the work already quoted, states (p 32) that

Davos does not cure consumption by its sunshine, or the pur ity and dryness of its air (although these conditions undoubtedly cooperate in the beneficial effect), but mainly by the rarefaction of its air, which stimulates respiratory activity, promotes healthy expansion and soundness of tissue in the lungs, and hence aids them to resist the spread of morbid deposits."

So much then, for the immunity which is afforded by mountain climates, but that which is of still greater interest to us is the fact that those who follow active employment are less liable to this disease than those who pursue sedentary and quiet occupations Thus, M Lombard found

"in Paris, Geneva, Vienna and Hamburg, that there are a

greater number of persons leading a sedentary life afflicted with phthisis than of those leading an active life, in the proportion of 141 to 89 In the Brompton Hospital the relative liability was found to be 63 per cent of indoor males to 30 per cent of outdoor, and all the consumptive females followed indoor occu pations Dr Guy found, in the close workshops of a printing establishment, the compositors, whose employment is sedentary, fell victims to phthisis in the proportion of 44 per cent to 31½ per cent of the pressmen, who, although breathing the same air and in every other respect subject to the same habits of life, differ only in the active bodily exercise which the press imposes on them, and among the same class of operatives the deaths from the same cause did not exceed 25 per cent in those who use exercise in the open air " (Ancell)

There can be no doubt, too, that those of our Indians who are still allowed to obey their roaming instincts of hunting and of fishing, or to follow their vocation of farming, which a number have, owe their immunity from this disease, which we know they possess, in great part if not entirely to the physical exercise which they obtain in this manner, while those who are subjected to the idle and improvident reservation life die rapidly from it, principally because they are deprived of their wonted exercise This is of special interest to us here, because it has such a direct bearing on the main point at issue the former class of Indians, like the Pimas, for example, who may be called wild, although they are agricultural in their habits, are living in half underground huts with very little or no ventilation, yet, from all accounts, consumption is an exceedingly rare disease among them Thus far we have seen that, on the whole, those

who occupy elevated habitations, as well as those

who follow active exercise, are more exempt from the disease under consideration than those who live near the sea level or those who live a life of quietude In connection with this we will consider the influence of physical exercise on the lungs, and endeavor to ascertain how it affords protection against consump-During physical exercise more oxygen is consumed by the muscles, and more blood and air circulate through the lungs than during rest had large experience in the climatic treatment of much more air enters the lungs during activity than during rest can easily be estimated when it is known that during inactivity a man breathes 480 cubic inches of air per minute, and while walking at the rate of four miles per hour, or while tramping a treadmill, he breathes 2400 cubic inches, and if he walks at the rate of six miles an hour he takes in 3260 cubic inches of air per minute The difference between 480 and 2400 cubic inches of air-capacity shows that during the exercise of walking even at the rate of four miles per hour, five times more lung surface is thrown into action than during rest, which proves very conclusively that bodily activity possesses a marked influence in determining the degree of lung expansion, and that under such conditions regions of lung will be called into service which are never fully reached by air during bodily rest

This is in entire accord with what practically exists Thus Darwins says that the lungs in improved breeds of cattle, which naturally take little exercise and are domiciled much of the time, "are found to be considerably reduced in size when compared with those possessed by animals having perfect liberty," and

² Climatic Treatment of Consumption B, Dr J A Lindsay p 6-⁴ Rocky Mountain Health Resorts p 85

Waldenburg' states that the vital lung capacity is smallest in persons who lead sedentary lives, such as professional men, students, clerks, etc, and is greatest in those who follow active outdoor occupations, such as sulors, recruits, etc Chassagne and Dally, in their joint work on the "Influence of Gymnastics on the Development of Man," report that at the Military School of Gymnastics of Joinville-le-Pont, out of 401 individuals subjected to gymnastic exer- not from one of permanence, the mountain climate cises for five months, 307, or 76 per cent, showed an is to be preferred increase of an average of 2 5 centimetres in the mammary circumference of the thorax According to must not be overlooked that, on account of its rare Dr Abel, 75 per cent of those who practice gymnastics in Germany experience an increase in the meas-There can be no doubt that | urements of the chest the principal reason why consumption increases with not be denied to physical exercise, although it is the advent of civilization is that everything in civilired life tends to produce physical inertia in our bodies Walking is substituted by riding in carriages and in cars, manual labor is in great part replaced by machinery, active outdoor labor is supplemented ing that it is not so much a question of developing by quiet indoor occupations—in fact, everything the base of the lungs as it is one of expanding the which tends to produce physical activity is ex- apices changed for a life of ease and indolence American Indian, as has already been stated, is less chest capacity than the male, yet, owing to her known to be comparatively free from the disease in increased costal expansion, which has been culti his wild state, but as soon as he acquires the habits and customs of civilized life he becomes its victim

In converging the two lines of reasoning which male? have been thus far developed in this paper, it appears that the immunity from consumption which is parative effects of mountain climate and of physical established by residing in a mountain climate, and by practicing physical exercise, is chiefly brought and it now remains to be shown how the effects of about in the same manner, viz by increasing the capacity of the chest And from a practical point of view it is of some moment to know whether the former has more weight in bringing about such restoration than the latter-or, in other words, whether those who live in high altitudes continue to enjoy this exemption if they refrain from active physical exercise and take up a sedentary occupation in such From recent inquiry into this subject we are inclined to believe, at least so far as the Rocky Mountain climate is concerned, that as soon as outdoor pursuits are exchanged for sedentary indoor occupations, consumption increases in frequency It 15, therefore, quite certain that physiological exercise plays a more important part in the problem of proposition and cure of consumption than a residence proposition and cure of consumption than a residence intervals.

Bodily Exercise—The power of walking is common to most people, and its influence on the lungs, as we have seen, is very marked. It is regarded of great service even by those who exclusively advocate the utility of high altitude treatment. Dr. Brehmer, of the utility of high altitude treatment. cise plays a more important part in the problem of fer but venountain climate, for it is a common for but venountain climate, for it is a common for but venountain climate, for it is a common for but venountain climate, for it is a common for but venountain climate, for it is a common for but venountain climate, for it is a common for but venountain climate, for it is a common for the but venountain climate, for it is a common for the but venountain climate, for it is a common for the but venountain climate, for it is a common for the but venountain climate, for it is a common for the but venountain climate, for it is a common for the but venountain climate, for it is a common for the but venountain climate, for it is a common for the but venountain climate, for it is a common for the but venountain climate, for it is a common for the but venountain climate, for it is a common for the but venountain climate, for it is a common for the utility of high altitude treatment. Dr Brehmer, of Gorbersdorf, according to Schreiber, was the first to prescribe, for consumptives, walking up a gradual ascent. the sea level is always regarded as perilous Such hour, either on the level or on a slight upward grade, insequences are in perfect harmony with what one is of immense advantage to the invalid ould be led to apprehend from a knowledge of the dancing, skipping rope, (especially when the rope is lysiological factors involved in the restoration of swing backward), bowling, etc, are to be highly These factors are entirely local, and recommended

their influence does not extend very far beyond their immediate dominion This objection does not hold good in regard to physical exercise One thing may be said, however, in favor of mountain climates which is not true of physical exercise, viz it produces its beneficial results without conscious effort on the part of the individual, therefore, when the remedy is viewed from a standpoint of ease and comfort, and

In discussing the influence of mountain climate it faction, it increases the circulatory and cellular activity of the body, and in this way undoubtedly aids the process of nutrition, yet even this influence can brought about in a more direct and positive manner

While increased chest capacity is, therefore, the great desideratum in preventing and treating consumption, we have the strongest evidence for believ This is well shown by the fact that the civ-The lilized female, although she has on the whole much vated through the protracted influence of tight lacing, she is less liable to pulmonary consumption than the

Pulmonary Gymnastics —Such, then, are the com exercise in the treatment of pulmonary consumption, the latter can be obtained without resorting to those Reference has already been made to of the former the fact that muscular effort increases respiratory motion, and in taking up the question of pulmonary gymnastics, it is not our purpose to discuss those exercises only which have a direct influence on the chest capacity, but also those which, through the body, have an indirect influence on the pulmonary organs. In all exercises it is very important that none should be carried to the extent of decided fa tigue, and that, whenever possible, the body and head should be kept erect, the shoulders thrown back and the lungs thoroughly filled with each breath, that breathing should only take place through the nose, and that sufficient food is taken during the

Whatever the mode of exercise may

⁶Animals and Plants vol 11, p 361
⁶Pneumatische Behandlung Respr u Circul Krankheiten, p 119
⁷Female Dress as a Determining Factor in Pulmonary Consump tion Thomas J Mays, Med News, January 7, 1888

be, it must be performed under as little compulsion One reason why the above named exercises are so conducive to health consists in the fact that the excitement which they induce is so attractive that the consciousness of muscular effort is

Among the many indoor exercises the following movements are very valuable The arms, being used as levers, are swung backward as far as possible on a level with the shoulders during each inspiration, and brought together in front on the same level during each expiration, or the hands are brought together above the head while inspiring, and gradually brought down alongside the body while expir-When a deep inspiration is taken in accordance with either plan and held until the arms are gradually moved forward or downward, or even longer, the process of chest expansion is materially enhanced

Another very effective exercise is to take a deep inspiration, and during expiration only the patient, in a loud voice, will count as long as possible male person with a good chest capacity can count up to sixty or seventy, while in a female with ordinary lungs this power is somewhat reduced tice of this sort will gradually develop the chest, and the increased ability to count is a measure of the improvement going on within the thorax

Many of these movements may have their effects greatly enhanced by the use of dumb bells, chest weights, etc, which are made especially for the

Compressed and Rarefied Air —The breathing of compressed and rarefied air is attracting wide attention at the present time in connection with pulmonary consumption, and is another most useful method whereby the chest capacity can be markedly Nearly four years ago Dr Cohen, the *improved* honored President of our Society, advocated the substitution of compressed and rarefied air for a change of climate, in a paper which he read before the American Climatological Association Here he says

"In many cases fully as much good can be secured by this treatment as by change of climate, and in a few much more, though, in the vast majority of cases in which change of climate is advisable, it is but a poor substitute "

There can be no doubt that compressed and rarefied air is inadequate when used alone in many cases, but when combined with pulmonary gymnastics and other judicious treatment, we are not sure that the results obtained are inferior to those which are derived from climatic treatment Recent experience has shown us that when consumptives, who had spent one or two winters on the Rocky Mountains, or on the Pacific Slope, without benefit, were subjected to the use of compressed and rarefied air in association with other pulmonary exercises, such as are above described, their improvement became marked and decided On the whole, our experience with the air treatment, combined with pulmonary gymnastics, has been very favorable, and we think that this is in consonance with the observations of Thus the late Professor Flint, in his work on Phthisis, says (p 406)

ence, as compared with the hygienic measures available at home" changes of climate have in a marked degree a beneficial influ-

We believe, however, that, as a rule, these measures are applied too infrequently to be of the greatest service, and, therefore, insist that the pulmonary gymnastics be repeated every hour and a half during the day—the first thing in the morning and the last thing at night—and for from fifteen to twenty minutes at each time, and that the air inhalations be given at first twice, and in the course of two or three weeks gradually increased to four or five times a day, and even oftener It is very true that this method of treatment involves more labor and perseverance on the part of the patient than is required in a high mountain climate, but then it is a question whether the patient is not more than compensated by the consciousness that a separation from friends is unnecessary, that the heavy expense, the dangers and discomforts incidental to travel are avoided, and, above all, that the improvement which may take place will be persistent and be practically unaffected by a change of residence

Now, after reviewing the whole subject, we are driven to the conclusion that the line of immunity from consumption, which, in the early history of our country, was located at the Atlantic seaboard, and which has gradually receded westward with the tide of civilization, until at present it has reached the latitude of Colorado, will not stop in its course until it touches the shores of the Pacific, that the question of curing the disease does not depend on the purity or freshness of the air, or upon the number of bacilli which the atmosphere may contain, or upon the amount of oxygen which may be introduced into the body-for these are all secondary considerations, but it is simply a mechanical question—a question as to the best mode of expanding the lungs, and especially the apices of our round-shouldered and flatchested patients, of removing the infiltrated products already existing, and of enhancing the constitutional

resistance

MEDICAL PROGRESS.

ANATOMY AND PHYSIOLOGY OF THE PHRENIC NERVE -MR W W WAGSTAFFE has the following note in St Thomas's Hosp Reports, vol xvi, 1886

During the course of teaching and examining I have been struck with the absence from most, if not all, of our text-books, of any notice or explanation of an important fact which appears obvious anatomically—the peculiar relation of the phrenic nerve to the anterior scalenus muscle Our most generally used anatomical works ignore the fact that in passing over this muscle the phrenic nerve sometimes gives branches to it This I have traced in several cases, but it is no doubt more usual for the branch of supply to the muscle to come from the fourth cervical nerve close to the origin of the main root of the But whichever arrangement exists, the as-"It does not appear, from the analysis of my cases, that sociation of either the trunk or the root of the phren-

ic with the nerve-supply to the anterior scalenus is ure of success, but in all of them still earlier interthe fact I wish to emphasize, and the course of the ference would have been better surgery and more nerve over the muscle must also in itself be looked advantageous to the patient upon as a matter of interest and importance Those to a rule that an operation should be done at a given few anatomical authorities who mention the fact of time from the onset of an attack branches to the anterior scalenus sometimes coming is not appreciated by the physician in attendance, from the phrenic, either entirely omit a reference to or the friends object, or some variation in the sympits obvious physiological use as a motor nerve to this toms leads to the hope that medical measures may muscle, or lose sight of what appears an important suffice physiological connection between the diaphragm and finement in diagnosis, such as the location of the the anterior scalenus in respiration

Even in standard physiological works I do not find ture a satisfactory reference to this fact Professor Michael Foster alone among English authorities gives arrive at valuable conclusions in these respects, but any prominence to the special value of the scaleni I think the deciding of the main question, Does inin the mechanism of respiration, but even in his admirable work the meaning of the relation of the conclusion once reached, medical measures may be phrenic to the two extremities of the thorax is not resorted to satisfactorily enunciated And in speaking of the effects of the division of the phrenic (in the rabbit) reference is only made to its influence on the dia- to acute obstructions ing a point which would be interesting to notice, and this is how far the relationship of the phrenic to the anterior scalenus is common to animals having thoracic respiration

Noting, then, that the phrenic in passing over the anterior scalenus may supply it with branches, and that its final distribution is to the diaphragm, we have, it seems to me, an important anatomical fact indicating the simultaneous action of the upper and large enough to admit the hand should be made, and lower ends of the respiratory apparatus—a mechanism which the ordinary bellows or concertina may roughly exemplify The scalenus would fix and raise the first rib, from which the intercostals would work, probably external and internal, thus acting as elevators of the ribs and increasing the lateral capacity of the chest, while the diaphragm of course increases the longitudinal capacity 1

The course taken by the phrenic is suggestive of its physiological function on the muscles above indicated, and it would be of interest and value to notice the effect of injury or disease upon the phrenic between these two endings, such cases, however, are Some interesting cases are to be not easy to find found in Le Gros Clark's paper just referred to, but in these the whole of the phrenic has been paralyzed from injury to the cord, and we cannot distinguish the function of the phrenic as to its double supply

Henle notices one case, but one only, of branches coming from the phrenic to the anterior scalenus, and this case is given on the authority of Luschka I shall be satisfied if this note calls attention to the of Boston, says that he has laid down the following fact, and suggests a satisfactory physiological ex-{principles for his own guidance planation

LAPAROTOMY FOR ACUTE INTESTINAL OBSTRUC TION -In the Medical Record, of February 25, 1888, DR W T BULL records five cases of intestinal obtories show that the operations were done as early any tendency to again prolapse. If it does so, it is struction operated on, with two deaths as consent could be obtained, and with a fair meas-

It is difficult to adhere Either the danger Much valuable time is lost in efforts at reseat of obstruction and the determination of its na-I do not mean to speak lightly of the informa tion we possess, which will sometimes enable us to testinal obstruction exist? is more important. This If they fail to relieve at the end of from twenty-four to forty eight hours, the operation should be performed In this I refer, as a matter of course, In chronic cases, like the I have not the means by me of determin-last two narrated, it is proper to delay longer persistence of pain which requires morphine for its relief, the continuance of vomiting, the failure to provoke a movement by several rectal enemata, aided by mild aperients, these symptoms, with or without commencing tympanites and without fever, should invite the attention of the surgeon, and demand operative interference unless promptly re-The operation decided upon, an incision the presenting intestine pushed away to permit in spection of the rectum, cæcum, and sigmoid flexure Then bands may be felt for, or empty loops of intestine, and this failing to discover the lesion, the gut may be searched, while still inside the belly, for congested or distended portions This can be done rapidly, if the edges of the abdominal wound be Removal of the small intestine strongly retracted from the cavity, or "eventration, "which has been advocated by Kummell, seems to me a very serious It has, in the instances where I have done it for gunshot wound, invariably produced great shock It might seem proper if the intestine were not heavy from congestion and enlarged by distention, but when such a condition exists, I think enterotomy would be preferable to "eventration," or to the emptying of the gut by incision, as proposed by Greig Smith

> DANGERS OF SIMPLE EXTRACTION OF CATARACT -In an article on this subject DR HASKETT DERBY,

r He would reserve simple extraction for those cases in which the cataract is ripe, the nucleus large, the patient tranquil and amenable to discipline

2 After the operation, the application of the bandage should be slightly delayed, the object being to ascertain whether the iris, once replaced, shows to be at one excised

3. Eserine is to be applied directly to the eye immediately after the operation, and dropped in the

¹ Vide Le Gros Clark on the "Mechanism of Respiration," Proc Royal Soc, 1872, a paper too much overlooked

(as recommended by Schweigger) for the three following days

4 Greater quiet on the part of the patient is to be insisted on than has been the case after the op-

eration of Graefe

5 The eye needs to be inspected much sooner,

certainly by the end of the third day

And even if these or similar rules be followed, I cannot resist the belief that for the average surgeon, and in the present state of our knowledge, simple extraction at the best involves an element of danger that is wanting in the method of Graefe The successful extraction without iridectomy is unquestionably the more brilliant of the two methods, and the patient thus cured a more striking exemplification of A greater familiarity with the new surgical skill operation may cause the risk to assume inconsiderable proportions But some risk is likely to always It is like the old question as to the relative advantages of ether and chloroform the latter easier to transport, pleasanter to take, quicker in its effect, and occasionally, alarming in its consequences -Boston Medical and Surgical Journal, Feb 23, 1888

THE ETIOLOGY OF GASTRIC ULCER -Impressed by the fact that women employed as cooks so frequently suffer from gastric ulcer, Decker (Fort schritte der Med, B v 415) instituted some experiments on the action of hot foods in producing the Two dogs were repeatedly fed through the stomach tube with semi-solid food heated to 120° F The first received nourishment in this way four times, and the other eight times At the autopsy of the first dog the mucous membrane of the stomach ap peared normal in all parts, except at the lesser curvature, where there was situated a hyperæmic spot. about four-tenths of an inch in diameter, caused by and muscular layers

In the second dog there was found a dark red area on the posterior gastric wall, about the size of a quarter of a dollar

gastric ulcer

servations of Ritter are of interest (Zeitsch f kl that gastric ulcer can be produced by violence acting ary, 1888 through the abdominal walls Several such cases have been studied in Leube's clinic, and an autopsy

inner corner of the eye, without separating the lids narcosis was then continued until death resulted The autopsies, revealed regions of hæmorrhage beneath the mucous layer, separating it from the tis-There is no doubt that the gastric sues below juice would have soon produced ulcers at these spots, had the animals been allowed to live

The action of trauma in producing ulcer is probably connected with the quantity and quality of the Then, too, a more chronically gastric secretions acting trauma, such as disturbance of the circulation, plays, perhaps, a more prominent rôle than has been ordinarily supposed, though it is difficult to understand why chlorosis should lead to circulatory disturbance oftener than do pulmonary or cardiac

It seems very probable that the use of the corset is also a frequent factor by pressing the stomach against the vertebral column Thie, combined with the pressure of the food toward the pylorus, and the anæmic condition of the mucous membrane in chlorotic women, may be sufficient to deprive the part of blood to such a degree that the gastric juice begins to act upon it -American Journal of the Medical Sciences, January, 1888

UNEQUAL WIDTH OF THE PUPIL IN INTERNAL DISEASES -DR F PASTKERNATZKY, from observations made at the clinic for diagnosis and general therapeutics of Prof Ischndowsky (Arch Ophth, vol xvi, No 3), gives the following He generally found unequal width of the pupil in those constitutional diseases in which there is a distinct anatomical lesion, generally on one side only (croupous pneumonia, pleuritis, renal colic, affections of the heart and liver) The various diseases may be ranged as follows, as regards the frequency of occurrence of this symptom In croupous pneumonia, inequality of the pupils occurs in 85 per cent of all cases, in a hæmorrhagic extravasation between the mucous heart disease and aneurism of the aorta, in 61 per cent, in pleurisy, in 52 per cent, in catarrhal chronic pneumonia, in 38 per cent, in acute rheumatism of the joints, in 25 per cent, in catarrh of The mucous membrane over the respiratory passages, in 25 per cent, in scurvy, it was shrivelled, and resembled felt, and had been in 16 per cent, in typhus fever, in 16 per cent, in somewhat separated from the muscular layer by the febris recurrens, in 15 per cent, in typhoid fever, occurrence of hæmorrhage between them In the 13 per cent In croupous pneumonia the pupil of pyloric region were two typical gastric ulcers, ex- the affected side is larger in the beginning of the tending to the serous layer The author considers process, the maximum of dilatation is reached at the the hæmorrhagic infiltration, the shrinking and eleva- height of the disease Shortly before the crisis, and tion of the mucous membrane, and its final destruc- during the latter, the pupils become equally wide, tion, to be the three phases in the formation of while during convalescence the pupil of the affected side becomes smaller The author believes that the In connection with Decker's experiments the ob- inequality of the pupils in internal disease is a reflex phenomenon in close connection with the process of Med, B 11, H 5, 6, 592) There are a number of disease, the nature of which has not vet been deterclinical observations which render it almost certain mined - Dublin Journal of Medical Science, Janu-

TREATMENT OF ARTICULAR RHEUMATISM—As the of Hofmann's offers additional evidence in the same result of much experience Aufrecht has come to direction Ritter made some experiments on dogs use salicylic acid in acute rheumatism, to the excluto prove that ulcer could actually be brought about sion of other drugs, and with complete success. He in this way The animals received a rather heavy gives the acid in full doses, gr 90 a day for the first blow over the region of the stomach, and chloroform two or three days, and gr 45-60 a day for the following eight or ten days carried out in all cases however, since burning pain gestions occur in the stomach, vomiting, tinnitus aurium, or dyspncea prevented the use of the drug Nor could salıcylate of soda, in corresponding doses, be used in these cases, since it caused the same disagreeable prove the nutrition of the skin, it is desirable that symptoms, and was not so effective in keeping down the processes of waste and repair be carried on with

pain and fever When salol was introduced Aufrecht tried it, and with improvement in some respects. It caused but little local or general disturbance, and its use could be continued as long as desired, one patient took of their functions gr 3500 in doses of gr 90 a day But in acute polyarthritic cases salol was not so effective as salicylic acid, for while the latter generally subdues pain and fever in twenty-four hours, salol requires three or four days, though the pain is greatly amelnorated in a shorter time Still, in consequence of bidding all stimulants, on the ground that they do its many advantages, Aufrecht used salol as routine no good and may do harm In charity practice it treatment until he had a fatal case of acute endocarditis-which he had not met with in 600 cases scribe medicine for patients who are living largely on Since that time he has treated with salicylic acid adopted a mixed treatment Acute cases receive 90 gr of the acid in each of the first two days, and afterwards the same amount of salol, but later, while the patient is still in bed, the salol is reduced to gr 60 a day Since salicylic acid is generally well borne for two days, this method of using the drugs seems worthy of trial as routine practice Of course, if the acid can be taken agreeably it may be continued

Salol is in every way preferable in chronic articular rheumatism, since by its use the dangers of the prolonged use of the acid are avoided, and there is more hope of a permanent cure - Deutsche med

Wochenschrift, Jan 12, 1888

Acetanilide (Antifebrin) in Febrile Diseases DR ADEMSKI (Wratsch, 1887, No 25, quoted by Bull Gen de Therap, January 15, 1888) narrates his experience with acetanilide in various febrile dis-Amongst them were 4 of typhoid, 3 of acute rheumatism, 2 of pleuro-pneumonia, and 1 each of intermittent pleurisy, phthisis, and erysipelas all patients bore the remedy well, and in one case of acute rheumatism a dose of sixty centigrammes (ten grains) brought on symptoms of collapse The tem-A dose of two perature was invariably lowered grains every hour rapidly lowered the fever heat. The pulse is lowered from ten to thirty beats per minute, and the respirations may be brought down Sweating was a confrom twenty-six to fourteen In large doses acetanilide induces stant result hypnotic effects, and in such cases as acute rheumatism and erysipelas, manifests an anodyne action Diuresis was a symptom in the majority of cases The urea was lessened, but the total output of nitrates was increased, the phosphates, the chlorides, and the sulphates were diminished in quantity The diuresis for the most part consisted, therefore, in a mere increase of the urmary water -Am Journal of Med Sciences, March, 1888

STIMULANTS TO BE AVOIDED IN THE TREATMENT OF SKIN DISEASES —In an article on diet in cutane-

This course could not be ous affections, by Dr. G. H. Fox, the following sug One very important point to be considered in preparing a diet list for patients with skin disease is the effect of alcohol, tea, coffee, and tobacco in retarding tissue metamorphosis To im When alcohol or other stimulants out cessation are consumed to any extent, this desirable change or reconstruction of tissue is arrested, and the various organs of the body are impaired in the performance The effect of beer upon an eczema is as marked as it is upon a gonorrhœa. Dr Fox has sometimes thought it better for a patient to drink a whole bottle of whisky than a single glass In cases of pruritus, in private of malt liquor practice, the author has fallen into the habit of forhas often struck him as the height of folly to pre tea and beer, and whose symptoms would speedily disappear under a judicious regulation of diet In deed, it is difficult to appreciate what dietetics will do in the treatment of cutaneous and other diseases unless we move, for the time being, a suspen sion of the Pharmacopæia - Dietetic Gazette, January, 1888

> PENETRATING GUNSHOT WOUNDS OF THE CHEST -DR GOUZIER has published some observations and statistics regarding the penetrating gunshot wounds of the chest occurring in the French expedi tions to Formosa and Tonquin in 1883-85 From his work we gather that such wounds showed a mor tality of ro per cent, which is only about one sixth of that due to similar wounds in recent European Apparently, as he wars and in the American war suggests, the general employment of antiseptic methods was the cause of this great amelioration Chest wounds from revolver balls of seven millime tres in diameter generally proved comparatively Traumatic pleurisy and pneumonia usu ally terminated favorably, but hæmorrhage, empye ma, and compound fractures of the ribs gave much He found that the best prac more serious results tice was not to explore unless it was necessary to extract the ball, and not to attempt extraction unless the ball was just beneath the skin or was setting up In ordinary cases he dangerous complications found the best plan was to close the wound antisep tically, but if there were empyema, to make a coun ter-opening and to wash out and drain the pleural Warm antiseptic baths were also found very cavity useful in Tonquin — Lancet, Jan 7, 1888

> LANOLIN AND BACTERIA —GOTTSTEIN has found by experiment that landlin is not decomposed by the agencies that commonly destroy fatty matters, and that the skin to which landlin has been thor oughly applied is less likely to be invaded by poisonous germs and materials than when lanolin is not applied - Therapeutische Monatshefte, Jan, 1888

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THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All com munications in regard to editorial work should be addressed to the Editor

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SATURDAY, MARCH 17, 1888

ACTION OF INDUCTION CURRENTS IN SUBCU TANEOUS INJECTIONS

For many years there has been a good deal written and said as to the best means of using subcutaneously certain drugs, such as quinine, ergotin, arsenic, ether, camphor, preparations of mercury, and others, without having unpleasant local results follow the injections, but no method that has been suggested hitherto has given favorable results cians that have treated syphilis by the subcutaneous use of preparations of mercury know that the chief difficulties and disadvantages of the method lie in the fact that these preparations cause trouble at the site of the injection

A solution of the problem has been recently offered by DR WACHSNER (Die Wirkung des elektrischen Inductionsstromes auf subcutane Einspritzungen, Deutsche medicinische Wochenschrift, No 51, 1887), who proposes to increase the absorptive powers of the tissues by the electric induction current, so that the foreign body will be more quickly removed, and the injected solution act more quickly and with more certainty Careful dissection of the portion of the skin immediately over the subcutaneous cellular tissue shows that there is an apparatus in connection with the cellular tissue that has the power of strengthening the physiological functions of the vessels, and of causing an acceleration of the stream through them This is a muscular apparatus that can be made to contract by an electric irrita-We know that the muscles are motive powers latissimus dorsi

of muscles capable of causing excitation are more energetic and powerful upon the movement of currents in the vessels than its vital contractions When such a muscle is made to contract, it of course becomes shorter and thicker This thickening exerts pressure on the lymph and blood vessels of the skin above the muscle, and these vessels are thereby When relaxation takes emptied of their contents place, there occurs a quick and energetic imbibition, and all the vessels, the cellular tissue, and the muscle become filled, and the structures in the vicinity are thus affected by the movements and changes of the muscle When, therefore, a subcutaneous injection is made, and these muscular contractions are provoked, the foreign body is soon disposed of, and disturbances from it are prevented The return of a portion of the solution to the site of injection is prevented by the valves of the vessels, so that the solution is pressed and carried forward toward the general circulation A proof of this suction-power is shown by electrization of the diaphragm, or phrenic nerve, in cases of asphyxia by chloroform, illuminating gas, drowning, etc., the action of the diaphragm draws air into the lungs

For provoking these muscular contractions the electric induction current is the best means constant current requires a large number of elements, and muscular contractions are provoked only on the opening and closing of the currents, and what is needed in the cases of which we are speaking is that the current oscillations should take place in the smallest periods of time possible periments Wachsner used the Leclanché apparatus, which he considers far preferable to any other bat-For the negative current a small electrode must be used, in order to diminish the resistance A considerably larger electrode must be used for the Direct faradization—faradization positive current of the nerve endings in the muscles—should be prac-In order to bring the current into the neighborhood of the superficial muscular nerves, it is advisable to strengthen the conductive power of the skin, and this is done by moistening the skin immediately before the use of the electric current with a warm salt solution, and by allowing the electrodes to remain for one or two minutes in a glass filled with this solution By the use of this solution the pores of the hair follicles and of the sweat and sebaceous glands are rendered patent for passage of the cur-The site for the injection should be over rent some powerful muscle, such as the gluteus or the When in the gluteal region it is for the lymph streams, and the passive movements better to carry the injection through the fascia into

the muscle, but in other regions it should be made pleuro-pneumonia—at any rate, it had a lump on its in the subcutaneous cellular tissue Of course it is understood that the needle must be very sharp, and must have been previously disinfected with boiling Immediately water, and then thoroughly dried after the injection the moist electrodes are applied, the positive to neighboring tissue, while with the negative the operation strokes the seat of injection At first a weak current with considerable pressure is used, and this is increased gradually until the elevation made by the injection disappears sitiveness and pain usually disappear entirely in four or five minutes, the skin can be pulled up in folds, and should some little infiltration show itself, this can be completely dissipated by using the induction current two or three times

Wachsner has used this method more than a thousand times, in 45 cases Of the cases there were 25 of syphilitic disease, 12 cases of hæmorrhage, and 3 In the syphilitic cases a of nervous phenomena 1 100 solution of sublimate was used, from 8 to 9 mgr of sublimate being used for each injection the cases of hæmorrhage he used a solution of ergo tin, in equal parts of glycerine and water, o i gr The camphor used for injection being injected It may be was dissolved in 96 per cent alcohol suggested that this use of the induced current would be of great service when the blood-injections recommended and used by von Ziemssen are practiced If the method be as valuable as would seem at first sight, it is possible that in many cases, as Wachsner suggests, the stomach will have to perform only its normal work of receiving and digesting food

PUBLIC WEALTH VS PUBLIC HEALTH

Less than a month ago a notice appeared in the obituary columns of the daily papers of this city, showing that on February 3, 6, and 15, the three children of a family had died of diphtheria in Chicago, their ages being 6, 3, and 1 years respectively But this announcement caused no commotion or public talk in the city, and certainly none in the The matter was not brought before Congress, nor was there a meeting of State Governors to dis-It does not appear that the family cuss the matter was quarantined, nor that any investigation was made of the origin of this outbreak of diphtheria. Beyond the family left childless no thought seems to have been given to the fact that three children have been carried off by a preventable disease

There was immediately a great commo under jaw tion in the State, and in adjoining and distant States Telegrams were sent to Washington, and Congress made haste to pass a bill, creating a new official with a salary, and added him to the Department of the Interior, making this new official a sort of Bureau of Animal Industries, and more than this, the business of the cattle-drovers at the Chicago Stock-Yards was temporarily paralyzed in order to see if some other cows might not take pleuro-pneumonia from the one An embargo was laid on cattle from the place where the cow with the swollen jaw was found The Bureau of Animal Industries seems to have gone out of existence, and it was probably forgotten until a short time ago, when it was found that the embargo laid in 1886 has not been removed

Cattle are valuable animals, and it is very impor tant that, since we use them for food, they be kept as free from disease as possible But are they more valuable than children? Is it more important that cattle be kept healthy, and free from preventable diseases, than children? One diseased cow, it may be said, may cause disease in many human beings The same may be said of one child sick with an in But cattle are worth money, and fectious disease their loss is a positive pecuniary loss to the owner The same, and to a very much greater extent, is true of children

How many cattle die annually of pleuro-pneumonia as compared with the number of children that die of diphtheria-not to mention the other infectious dis eases? Is there any comparison between the num bers? Do not the examples that we have cited remind one of straining at a gnat and swallowing a camel? Do not the people of this country owe it to themselves to have more efficient and a more uni form system of supervision of the health of the people?

There is another thing in connection with this question—the compulsory notification of infectious Whether a municipal government does right in compelling such notification without com pensation or not, the fact remains it is the duty of It is probably the case the citizen to obey the laws in every city in which there is compulsory notifica tion, and certainly is the case in Chicago, that physi cians are influenced not to report infectious diseases It is not long since a physi by interested parties cian (an irregular) was called to see a child sick with measles in a certain hotel in Chicago He was called by the advice of the proprietor, and was influenced cow somewhere down in the State of Illinois had by the proprietor not to report the case, though at

the time there were a number of small children in mals The matter was, as far as possible, kept a profound secret in the hotel This is one way in which unthinking, careless, ignorant people, aided by legal physicians, toy with human life

Suppose it had been smallpox instead of measles The stake for the hotel proprietor to play for would have been so much the greater People that will not run from measles will run from smallpox ple living in the hotel would, in all probability, have been exposed to the infection before learning of its presence, and then would have scattered themselves around the city, to other hotels and boarding houses. thus creating new centres of infection The punishment for the concealment of infectious disease by a householder, and for non-notification by a physician, should be so severe that such things will be unprofit-Then, perhaps, there would be able in the extreme a considerable reduction in the death-rate from such diseases

THE DEATH OF HENRY BERGH

On Monday, March 12, Mr Henry Bergh, long prominent as the President of the American Society for the Prevention of Cruelty to Animals, died at his home in New York City To the medical profession, especially in the State of New York, he has long been known as the tireless and unremitting opponent of any and all experiments on animals But while his love for animals was at times carried to an excess of enthusiasm and zeal, and while he and his agents may have been at times more officious than judicious in enforcing the principles of his society, it must be remembered that his was a work that required enthusiasm and the most ardent zeal, that popular prejudice was against him from the first Bergh was undoubtedly one of the great reformers, and his work must be measured by general results To the hundreds and thousands that stand ready to look after the wrongs of human beings, there are but few-very few-that take any thought of the rights and wrongs of dumb brutes Bergh aroused and quickened the dormant sentiments of pity and kindness for animals He went about his work in the face of a storm of sneers, ridicule, and abuse that would have discouraged men with less courage, and not so large of heart It may be truthfully said of him that his work has bettered humanity, on the one hand his influence has brought to his aid the better and more refined classes of society, while his power taught human brutes that they could not wilfully torture dumb ani stomatology may join the Society

Municipal authorities have recognized the humane influence of his work, and State legislatures have made new laws for the protection of dumb animals, police powers have been granted, and dead laws have been reanimated

Looking at Bergh's work as a whole it must be said that it was, and still is, a great work Scientific men cannot, of course, look upon his attempts to abolish experiments on animals as other than the results of an honest though misguided zeal-the results of trying to fight an imaginary evil, a practice in which he could see nothing good But in the legitimate field of the society founded by him there is still much work to be done-and outside the City of New York

PROPERTY IN LECTURES

In The Journal of February 11, we asked and commented upon the following questions

"Is it proper for a medical reporter having access to the ordinary clinical lectures in a hospital, to attempt to report in full the clinical lectures of a member of the hospital staff, and furnish the same for publication, without submitting a line of his manuscript to the lecturer for his approval? Is it proper for editors or publishers of medical journals to receive and publish what purports to be verbatim reports of clinical lectures without any evidence that such reports have been approved by the lecturer, and without even allowing him an opportunity to read the galley proofs?"

In regard to this matter we have recieved the following from Judge M D EWELL

"In answer to this question of propriety permit me to say that this matter not infrequently comes up before Courts of Chancery for decision absolutely no doubt whatever that in thus publishing clinical lectures without the lecturer's consent a legal wrong is committed, for which the courts give an adequate remedy Should your readers desire the authorities for this statement I shall be pleased to refer to them, but I will not otherwise take up your space "

SOCIETE DE STOMATOLOGIE is the name of a medical society organized in Paris on February 6, for the purpose of studying the diseases of the mouth, the dental apparatus and the adnexa Dr Magitot was elected President, and Dr Galippe, 65 Rue Sainte-Anne, Secretary Laryngologists, rhinologists, otologists, ophthalmologists, and specialists in the field of

VOLUMETRIC RICHES — The Gazette de Gynecologie tion each delegation shall choose two members of the says Le Dr H Keane a établi, au dernier meeting de la Société Gynécologique Américaine, que la littérature gynécologique s'étrait pendant ces huit dernières annees, de 804 livres et 7,500 articles de journaux et brochires!!!

ASSOCIATION ITEMS.

PROPOSED AMENDMENTS TO THE CONSTI-TUTION OF THE ASSOCIATION

It must be remembered by the members of the Association that several amendments to the constitution will come up for adoption at the approaching meeting As they met with no opposition at in Cincinnati the last meeting and would then have been adopted had it not been for the rule requiring all amendments to the constitution to be before the body for a year, it is probable that they will be adopted and become part of the law of the Association at the next meet-The reasons for the amendments were fully stated by the Special Committee that proposed them The complete report of this committee can be found in No 26 of vol viii of The Journal posed amendments are as follows

A substitute for an amendment adopted in 1884 to

the second section of the constitution

Members by Application shall consist of such members of the State, County and District Medical Societies entitled to representation in this Association, as shall make application in writing to the Treasurer, and accompany said application with a certificate of good standing signed by the President and Secretary of the society of which they are members, and the amount of the annual membership fee, \$5 They shall have their names upon the roll and have all the rights and privileges accorded to Permanent Members, and shall retain their membership on the same terms

From the fifth section of the Constitution, relating to "Standing Committees," the first and third paragraphs should be stricken out, leaving intact only the second paragraph, relating to the "Committee of Arrangements" In place of the first paragraph to be erased, your committee recommend the insertion of the following important provision, viz

The General Committee or Council shall be composed of two members from each State and Territorial Medical Society entitled to representation by delegates in the Association, and from the Medical Departments of the U S Army, Navy, and Marine They shall be chosen by the mem-Hospital Service bers registered and present at each annual meeting, from each State, Territory, and from the Medical Corps of the U S Army, Navy, and Marine Hospital Service, acting separately, on the third day of each annual meeting, each delegation reporting the names of the members chosen to the Permanent they may be announced by him at the opening of the connected with the work of publication, must be en morning session of the fourth day. morning session of the fourth day At the first elec-) dorsed by the President of the Board of Trustees

General Committee, one of whom shall serve one year and the other two years, and at each annual election thereafter one member shall be chosen to serve for two years, thus making the term of office of members of the General Committee two years It shall be the duty of the General Committee, thus constituted, to organize by choosing annually a Chairman and Secretary, and such sub-committees as may be found necessary to facilitate the work that may be assigned to it, to meet annually at the place and on the day preceding each annual meeting of this Association, and as often during that week as may be necessary, to nominate, on the third day of each annual meeting, all the general officers of the Association (none of whom shall be members of its own body), the members of the Committee of Ar rangements, the Committee on Necrology, seven members of the Judicial Council, and three mem bers of the Board of Trustees for Publication for election by the Association, to recommend the place and time of holding the next annual meeting, and to consider and report upon all subjects that may be referred to it by vote of the Association ence of one-third of the whole number of members elected to the General Committee shall constitute a quorum for the transaction of business annual meeting of the Association, it shall be found at the close of the general meeting of the first day that a quorum of the General Committee is not present, it shall be the duty of the President and Perma nent Secretary to fill the vacancies in the Committee temporarily by selections from the lists of delegates registered as present from the States to which the vacancies belong

In place of the third paragraph, the following

The Board of Trustees shall consist of nine mem bers, three of whom shall be elected annually on the nomination of the standing General Committee, and It shall be the duty of shall serve for three years the Board to provide for and superintend the publi cation and distribution of all such proceedings, transactions, and memoirs of the Association as may be ordered to be published, and in such manner as the Association may direct, and in doing this, it shall have authority to appoint an editor and such assistants, and determine their salaries, and procure and control such materials, as may be necessary for the accomplishment of the work assigned to it further facilitate its work, it shall be the duty of the Secretaries of the Association and of the several Sections, during each annual meeting, or as soon thereafter as practicable, to deliver to the Board, or such editor or agent as it shall appoint, all such records of proceedings, reports, addresses, papers, and other documents as may have been ordered for publication, either in the general sessions or in the All moneys received by the Board of Trustees or its agents, resulting from the discharge of the duties assigned them, must be paid to the Treasurer of the Association, and all orders on the Treasurer for disbursements of money in any way It shall be the further duty of the said Board of Trustees to hold the official bond of the Treasurer for the faithful execution of his office, to annually audit and authenticate his accounts, and present a statement of the same in its annual report to the Association, which report shall also specify the character and cost of all the publications for the Association during the year, the number of copies still on hand, and the amount of all other property belonging to the Association under its control, with such suggestions as it may deem necessary

Should these provisions be adopted by the Association, the Permanent Secretary should be authorized to substitute the name "General Committee" for "Nominating Committee," wherever the latter occurs in other parts of the Constitution and By-Laws, and similarly the "Board of Trustees" for "Committee on Publication"

If these amendments are adopted, it will not change the mode of nominating officers for the meeting in 1889, since the proposed General Committee or Council which by the amendments will hereafter form the Nominating Committee, must be elected on the third day of the meeting, and will be announced on the fourth or last day, which would be too late for them to make nominations at the Cincinnati meeting If this General Committee is formed, it should, however, organize so that it will be an active standing committee, to do such business as may be necessary between the meetings of 1888 and 1889

SOCIETY PROCEEDINGS.

OBSTETRICAL SOCIETY OF PHILADELPHIA

Stated Meeting, Thursday, March 1, 1888 THE PRESIDENT, T M DRYSDALE, MD, IN THE CHAIR.

DR H A KELLY exhibited

AN ASEPTIC TWO-WAY CATHETER

A two-way catheter, which will conduct and discharge water and solutions with the utmost freedom and at the same time allow of perfect and ready cleansing after use, is a great desideratum light of the antiseptic surgery of to-day the use of In the degree dangerous, owing to the necessarily painfully tedious process of cleansing, and the impossibility of ever being able to assure ourselves that they are One of the best ever devised for the use of the upper and under surfaces the gynecologist is Bozeman's This has been modified by Fritsch and Oldshausen in such a way that the delivery pipe and discharge pipe are two separate pieces, so made that the delivery pipe enters the larger discharge pipe and is held in place by a ordinary dimensions of a placenta. It formed one

easier to clean than any previous forms, it was still difficult, and impossible to assure oneself I have now added my own modification to this instrument, making it now perfect in its utility and answering all antiseptic requirements

The syringe as constructed by me consists of three First, the delivery tube which conducts the stream from the hose connected with the reservoir into the uterus This tube is well curved, and at its entrance is furnished with a knob to hold the hose Its extremity ends in a button, with a series better of holes around and a little below the outer margin, in the form of a rose, so placed that the stream is thrown out on all sides and directed a little back-The remaining two pieces are the two lateral halves of the exit pipe, which is attached very simply by entering each end in the shallow collar under this rose, bringing them together around the inlet pipe and screwing the nut down on the thread on their upper end

Each side has a fenestra in it, near the point, and is scooped out near its upper end, so that when the two are fitted together there is a good sized hole When in use, water flies with force from the holes at the end, washes with it débris and fluid, which enter at once the large fenestra on the sides. are washed down and out of this large hole into the When out of use the cap is unscrewed, receptacle the halves fall apart, and every part which has come in contact with infection is at once exposed and readily cleansed The interior ought to be as highly polished as the exterior Mr Gemrig, of this city, has made these instruments for me in a highly satis-He has made one of solid silver factory manner for Dr Sweetnand, of Canada, which I exhibit here, with that I am now using as well as the older form

If the nomenclature is to be kept up as in the past, it is the Bozeman-Fritsch Olshausen-Kelly Catheter

DR KELLY also exhibited

A COTTON PACKER

This instrument has been many months on the shelf by my examining table, and is one of the few I am constantly using I have shown it to a number of my friends, and at a meeting of the alumni of the Woman's Hospital at New York this winter use is simply to pick up a loose wad of cotton placed near the vaginal outlet, and with the vaginæ properly exposed the uterus redressed, to carry it up into such two-way catheters as were commonly found in place in the fornices and pack in one wad after anthe surgeon's bag a few years ago, is in the highest other with perfect exactitude and any degree of firmness required It is made of a delicately tapering handle which balances nicely in the hand, terminating in three diverging tips, a little flattened on

DR B C HIRST exhibited

THE PLACENTA FROM A CASE OF UNIOVAL TWINS

It was very large in extent, having about twice the cap which is screwed down on it while in use This mass, with the most intimate anastomosis between will be understood better in examining my modification the two sets of feetal vessels. There was in this The objection to this still held, that although case hydramnion of one feetal sac

DR HIRST also showed

A PARIETAL BONI PRESENTING A SPOON-SHAPED DEPRISSION

It had been taken from an infant that died about The labor had been a difficult two days after birth one, terminated by the forceps, the child had presented by the vertex in R O P position, the pelvis was slightly flattened, head large, O I circumfer-At the corresponding point interence 36½ ccm nally there was a deep broad depression of the brain substance The child apparently died from congestion of, and serious effusion into, the brain

DR WM GOODEIL remarked that Ambrose Parc had compared these depressions to the indentation The indentation in this case was on kettle-drums After turning in the flat and narrow very typical pelvis, these indentations were very marked occupied then the temporal region and not the parietal, the shorter bi-temporal diameter being the one Hence in turning two mechanical advantages resulted, the small end of the cephalic wedge offered at the conjugate and also a cepnalic

diameter shorter than the bi-parietal

DR JOHN C DACOSTA wished to know if Dr Goodell thought turning could always be done in these cases? He spoke of a case that had occurred in his practice when the bone was much more depressed than in the specimen shown The whole left side of the head was bulged in by a large fibroid of the uterus, which fitted into the depression like a The pelvis was of good mortise and tenon joint shape and roomy, os uters wide open and soft, and yet the head, which was at or above the superior strait, in L O A position, would not descend on account the right side of the spinal column, opposite the third As the woman was in good condition of the tumor and nothing seemed to be going wrong, he let her After a little while, by the aid of alone for a time some manipulation, the head began to unlock from the tumor and rotated from O A to O P position, and the child was delivered alive

This case could not have been turned (as membranes had been ruptured and uterus gripped the child's body itself), and even if it could have been, there would probably have been a dead baby from pressure on the cord during the long delay that would ensue on delivering the head, as the tumor would most likely have locked under the baby's chin The forceps could not be put on, on account of ob-

struction to the left side by the tumor

DR GOODELL thought that Dr DaCosta would have had less trouble if he could have turned the He did not think the neck would have been He had been speaking before of the mechanical advantages only, and not of the difficulties in the performance of version

DR LONGAKER presented the following for DR

The case of Mrs B, æt 50, married at 15 years, HOLMES multipara, menstruation always scant and painful, is remarkable on account of a series of reflex symptoms, of death from exhaustion and from pain, without organic disease other than ovarian, and of simplicity of operation needed as revealed by autopsy

Mrs B consulted me April, 1886, having been treated elsewhere for muscular rheumatism Pains were of lancinating character along left sciatic, shoot ing down to ankle Examination showed ovarian tumor, probably cystic Prof Goodell confirmed diagnosis and advised operation, which patient then The chief complaint was and subsequently refused at first the pain posteriorly along left leg and thigh, which finally involved similar relations on right side In the course of a few months a persistent tremor attacked both lower extremities, at first alleviated by manual pressure, subsequently not, and later still extended to arms and hands and later yet to muscles of face and lips, giving much the appearance of violent chorea, interfering markedly with clear enunci

During the latter part of life there was oft-repeated and painful micturition, with bloody urine, with vio lent pain starting in lumbar region and shooting along into the bladder and urethra, raising a strong suspi cion of renal calculus

This, with the other lancinating pains, the tremors and nervous exhaustion consequent upon the many months' illness, caused great suffering, the patient often wringing her hands and grasping her hair in Hypodermics of morphia, 1/4 to 1/2 gr, gave agony markedly greater relief than same doses by mouth or The apparentin rectum, even frequently repeated

crease of tumor was very slow Autopsy indicated only slight omental adhesions The bladder, uterus, and the two Kidneys healthy attached cysts were removed a few hours after death The dermoid cyst has a long, slender pedicle, at tached to the left cornus uteri It was situated on and fourth lumbar vertebræ, covered by loops of small intestine and by omentum, to which latter it was slightly adherent. It was at first supposed to be a floating kidney which had undergone conversion into a cyst Its size, shape and location were sug The cyst contained choc gestive of such an origin No hair or teeth olate-colored sebaceous matter The wall contained calcareous plates ovary is the seat of a multilocular cyst the size of an The corpus uteri is average full term fœtal head undeveloped, the cervix constituting the larger por Evidences of chronic cystitis

tion of the organ

DR M PRICE said that this question was coming were present up daily, cases of pelvic disease were being con stantly treated by the general practitioner for mala ria, rheumatism, neuralgia and other kindred diseases, without making any investigation into the actual con dition of the patient In fact, malaria is becoming extremely fashionable, when there is no apparent reason for the condition He was then treating a case of ovarian disease, in a lady now 47 years old, was married at 15 years, contracted gonorrhoa from her husband at that time, has ever since remained sterile, with scant menstrual discharge and great pain from the approaches of her husband, sometimes the pain being agonizing She suffers at times from severe pain running down the left leg Upon examination the ovary was found to be as large as an orange, et

cessively tender, and when pressure was made in bimanual examination the patient went into convulsions on the table He did not know what relation this condition may have had in connection to the trouble in her early married life, of this he was sure, that it was the cause of her barren condition

DR LONGAKER also exhibited

THE POST-MORTEM SPECIMENS FROM A CASE OF CARCI NOMA UTERI

The following brief notes of this case are presented for Dr J S Gibbs L A, married, æt 39, always enjoyed good health until five years ago, when her last child was born Since that time she had suffered much from pelvic pains Menstruation had been excessive Patient first seen in June, 1887, when a diagnosis of carcinoma of the cervix was made The disease had invaded the vaginal walls and the pelvic cellular tissue

From this date I saw no more of the case until February 6, 1888 She had been free from pain, but

hæmorrhage persisted

Vaginal examination revealed advance of the dis-It provoked such a profuse hæmorrhage that applications of Monsell's sol were required to arrest It When the hæmorrhage was under control, pledgets of cotton saturated with terebene and olive oil (1-4) were packed against the cervix according to the plan of Betrin, of Geneva This medication di minished the offensive odor, but I strongly suspect it had something to do with the rather untimely demise of the patient

In a few hours from the time of the application she went into a somnolent state from which it was difficult to arouse her, with almost complete suppression of urine and strangury, and death in thirty-six hours A peculiarity of the case was absence of ca-

chexia and emaciation

Autopsy The cervix was extensively infiltrated The corpus shows a few nodules and ulcerated The ureters are dilated, as are also the pelves of the

Dr G E Shoemaker thought that the statement that death was probably due to an application of terebene should be carefully considered constantly using and observing the use of the drug internally in much larger quantities than could be absorbed from such an application, without sign of irritation Might not the death from uremia have occurred independent of its use?

DR LONGAKER believed that the application of the terebene did hasten death The strangury and suppression came on quickly after it had been used The case lacked some of the ordinary symptoms of

uræmia

DR WM GOODELL exhibited

A SPECIMEN OF CONJOINED TWINS,

which had been presented to him by Dr Junius F

Fuller, of Royborough, N C

The specimen was a perfect one The bodies were united at the hips and there were three feet in APEN ENPANSION VERSUS PURE AIR IN PULMONARY Some years ago an analogous living specimen of conjoined twins was on exhibition in this city, and he had brought them before his class at the

University and had given a lecture upon the subject From investigations then made he found that this form of conjoined twins was not a very rare one, as Aldrovanus and other old writers had described and figured them The specimen which he presented must have been aborted at the third month of uterogestation

DR GOODELL also presented

A SPECIMEN OF HYDROSALPINX

It was the largest specimen he had ever seen, although he had met with much larger specimens of pyosalpinx The case had been treated by many gynecologists and the true condition had not been There had followed the operation a recognized complete relief from pelvic pains, but menstruation had continued up to the present time The periods were, however, becoming less frequent was contended by some eminent surgeons that, when menstruation continued after the removal of the uterine appendages, some of the ovarian stroma must have been left behind, he wished to call the attention of the Society to the complete extirpation in this case of both ovaries and tubes Although the former were more or less adherent, it was evident from the specimen that not a particle of ovarian stroma was left behind

DR M PRICE said he had seen two cases in his practice where the menstrual discharge did not cease after the removal of the appendages In one case it lasted for a year and a half, in the other six months He had no doubt but that Dr Goodell's case would show the same result There was but little doubt in the mind of most operators that the removal had not been complete

PRESENTATION TO DR GITHENS

DR W H H GITHENS, who resigned the secretaryship of the Philadelphia Obstetrical Society the first of the year, after an uninterrupted service of eleven years, was presented this evening, in the name of the Society, with a very handsome mantel set, in cluding clock and side ornaments, in recognition of the very valuable services he had rendered the Society during his long term in office

OFFICERS FOR THE ENSUING YEAR President-Thos M Drysdale, M D Vice-Presidents-Chas H Thomas, MD, JC Da Costa, M D Secretary—J M Baldy, M D Treasurer—Alfred Whelen, M D Curator-T Hewson Bradford, M D

PHILADELPHIA COUNTY MEDICAL SOCIETY

Stated Meeting, February 22, 1888 W W KEEN, M D, IN THE CHAIR

DR THOS J MAIS read a paper entitled

CONSUMPTION

(See page 325)
DR. W W KEEN These are very practical ques-

tions presented for discussion Change of climate involves expense, separation from friends, interrup- service by calling attention to the fact that the con tion of employment Can we obtain equal benefits ditions to secure which consumptives are recommend by home gymnastics or change of employment? There is also a novel question raised as to purity of measures These are points that should be discussed

DR WILLIAM OSIER The last statement of the paper contains as ery important truth With imperfect | rect ratio between the percentage of cases of phthisis expansion there is a liability to clogging of the inter- and the breathing of impure air We often see a stitual circulation in the apices and accumulation of number of persons huddled into small, unventilated tissue debris which may afford a nidus for the devel- rooms, with filth and drink and all the factors of dis opment of the bacillus tuberculosis of activity of this interstitial circulation differs very such cases the men, who are engaged in active em much in different individuals little yet of the conditions which determine the de- streets, enjoy better health than the women, who velopment of tuberculosis like the old parable of the seed and the sower the tubs or sewing work nature of the soil will favor, retard, or prevent the That the bacillus of tubercle will not grow in every soil is demonstrated by autopsies in large of the treatment of incipient lung disease. A very general hospitals At Blockley, we will find in every hundred sections, say, fifteen or twenty cases with air in expanding the apices. In localities that are the usual lesions of phthisis, in fifteen or twenty warm, moist and low-like Florida, for examplethere are no excavations, the lung not extensively there is no such effect, and almost the sole benefit, tuberculous, but at the apices are small areas of induration, caseous nodules, and a few peripheral mili-The soil has not been congenial, and ary nodules the development of the bacillus was restricted Without bacillus, no tuberculosis, and that opinion ventilation of the lungs, reserving for Florida the is shared by ninety-nine out of every hundred clin- very weak and those liable to excessive hæmorrhage

icans of the day

department of physical education at the University of Pennsylvania, I had an opportunity of studying the effect of exercise on chest development Lads admitted with narrow lungs and supraclavicular depressions suffer, after moderate exertion, with embarrassment of pulmonary circulation is congested and there is evidently blocking of the blood current in the lungs After six or eight months of carefully regulated exercise, there is a change in did not confine himself to the topic of the paper and the local condition, no more obstruction is offered to the right side of the heart than elsewhere, the able manner blood-vessels respond to the extra demand put upon them With this free circulation goes an increase of say that I cannot accept the dictum, "no bacillus, them girth, from an inch to two or two and a half chest girth, from the chest girth gi Inspiratory exercises are inches in six months nearly always given these young men, especially those with that shape of chest which we are taught prescribed deep breathing, with or without movement side in the same employment, do the men become The arm is raised from the body to a After that the lifting right angle by the deltoid is done by the serratus magnus, the most important As the arm is carried nearer inspiratory muscle to the head, the insertion and origin of the serratus are approximated and the muscle works at a disad-For this reason expiration is practiced as the arms are carried up, and inspiration as they are Exercise should be made vigorous as a rule, do not strengthen the heart, but have a lo- a person inhales more air during sleep than in waking cal effect, whereas the object in these cases is to hours make the circulation free and the air-tubes pervious

DR C W DULLES Dr Mays has done good ed to live at high altitudes can be replaced by simple My observation, though limited, corresponds with that of Dr Mays, and I think that all of us have been struck with the fact that there is no di The condition ease, and yet apparently in blooming health In We know but very ployment, and the children, who run about in the In part, at least, it is have less active exercise and who bend over wash-

DR GEORGE E SHOEMAKER I heartily agree with Dr Mays that apex expansion is an important part important point is raised as to the action of rarefied as far as the climate is concerned, is from the patient's ability to be outside all the time Now would it not be better to send more of our patients to a climate where direct good is gained by the more thorough or to heart failure? In regard to impure air, we must DR EDWARD MARTIN While connected with the remember that many of those persons who enjoy good health in spite of their home surroundings, live out of door most of the time, the children in partic ular, living upon the doorstep or in the street, except In the same way at mountain in stormy weather and seaside resorts, the small and uncomfortable The right heart rooms drive visitors out into the air, and whether or not ozonized or rarefied, it is pure, out-of-door air

DR MAYS It is rather unfortunate that Dr Osler discuss the main points of the subject in his usual I purposely avoided all except an in cidental reference to the bacillus, but I must now bacilli need a soil in which to develop they should be able to penetrate into that portion of the lung which is hardly ever expanded in phthisical patients Why, if you take the two sexes and put them side by diseased in greater proportion than the women? Why this fondness of the bacilli for one sex? I must also dispute that point that ninety-nine out of every hundred clinicians accept this dogma Though born in Germany, the doctrine is already losing ground among the Germans

I wish in conclusion, to make a statement which I should have embodied in the paper, that, according to the latest researches, the apices expand more in the recumbent than in the erect position, therefore,

DR WM S STEWART presented

AN IMPROVED OBSTETRIC FORCEPS

I take it for granted that there is a large majority admitting their necessity, and the great benefit they are to the lying-in patient Therefore, I will content myself in endeavoring to point out the advantages of having parallel handles, so that the application of either blade first can be made at will, as the exigencies of the case may require The improvement is not restricted to any special form of blade, but can as readily be applied to the straight as to the curved, its use being equally effective with either form

The first object, for which I was most solicitous, was to be able to have an instrument that could be used readily in presentations in which it might be desirable to apply the second blade first, as some times in the second position of the head when jammed into the cavity of the pelvis and rotation to the antero-posterior diameter has been prevented by a narrow, contracted passage In all such cases there will be no difficulty in applying and adjusting the first blade, but occasionally it is impossible to apply the second in this condition of the presentation, the only remedy being to reverse the order by applying the second blade first, running the risk of injury to both mother and child in the recrossing of the handles in order that they may be locked before This we have overcome by havmaking traction ing the handles made parallel to each other, and without overlapping, as in the ordinary instrument Each handle has its own independent lock, the two being connected by a plain bar, which will admit of adjustment, no matter which blade is applied first

To overcome the danger of slipping, and to secure the grasp on the fœtus, it was necessary to devise some method of reversing the direction of the handles, in order that traction could be applied accomplish this a double lever was devised, one part on each handle, and each working on the same pivot or fulcrum, to this the traction is applied, resulting in a power perhaps superior to anything we could

have expected

The compression to the feetus is no longer in proportion to the power in the grip of the hand applied to the instrument, as in the cross-handles, but is regulated simply by the resistance to be overcome, consequently, all fear of the slipping of the instrument is obviated, and the only force that is necessary to be applied is for the delivery of the fœtus, serving at the same time for compression and trac-The compression, however, is controlled by a shoulder made on the toggle-joint, preventing any risk to the child, and its limit corresponding to the position of the blades of the cross-handled instrument when the handles are in apposition there be any irregularity of application, and consequent difficulty in locking, we have devised a coned hub with a winged nut, which, though the handles may be at an angle of twenty degrees, enables us to adjust them accurately The advantages of this summarized as follows either blade first

pression being regulated by the amount of resistance Fourth Greater facility for making traction

DR LONGAKER The only advantage of this modification of Dr Stewart's is that the forceps is not so This is due to the parallelism of the likely to slip blades, which is maintained even though the blades be not on opposite sides of the child's head, and in very large heads where it is difficult to recross the There is in existence another device for handles the same purpose—a very simple one—a mortise lock at the end of the handle Personally, I think the forceps introduced by Sir James Y Simpson can not be improved upon

Dr Packard I ought, perhaps, to speak with some diffidence on obstetrical matters, as my practice in that line has of late years been but limited Yet I can but recall the teachings of Professor Hodge, and the extremely practical instruction given the students of my day by Dr Joseph Warrington, which found abundant confirmation in my experi-

We were taught that the forceps should never be applied unless the os uteri was dilated or dilatable, that they should be introduced with the utmost gentleness, the surface of the child's head being the sole guide, that ready locking (and no force was ever to be used to effect this) was the test of proper appli cation, that under no circumstances was any leverage to be exerted by means of the mother's tissues, that the left hand of the operator (applied at the lock, the tip of the forefinger against the child's head, to detect any slipping of the blades) should be the fulcrum, the instrument being then used as a double lever, so as, by a gentle swaying motion from side to side, to coax the child's head through the This side to side movement was strongly advocated afterward by the late Dr Albert H Smith, whose experience and authority on such matters must be conceded Under all circumstances. except in certain abnormal positions of the child's head, the blades were to be applied with their long axes parallel with the occipito-mental diameter, and they had to be accurately opposed to one another in order to lock Now, it seems to me, in the light of my own experience, that the difficulty of recrossing the handles ought not to be such as to render a special mechanism needful in order to avoid it And I cannot but think that the deviation of the blades from parallelism, however brought about, involves danger

When the mother's forces are inadequate to effect delivery, I think the time has come to use the forceps, and to obviate the necessity of a long-continued grasping of the handles, they may be tied together with a handkerchief, or with any other convenient band, as soon as the blades are accurately applied to the head The compression so made is often necessary to the delivery, and on several occasions I have myself felt the bones of the head improvement, as experience has demonstrated, are give way under the grasp of the instrument, but the First The application of mother was unharmed, and the children lived As Second The impossibility of the to forcible traction, I have heard of the child's head slipping of the blades when properly applied Third being torn off, I have several times seen a strong Moderate and even compression, the degree of com- man brace himself with one foot against the bed, and

apply his whole power to drag the child from the mother In one case I have known this practice to result in the tearing away of part of the cervix, laceration of the vaginal wall, and permanent damage to the mother's local and general health style of forceps—and the Hodge pattern has always seemed to me the best—we had in each blade, used singly, a vectis, in one handle a blunt hook, an instrument often of great value, the other was a sharp hook, covered, when not in use, with a steel cap screwed on Such a combination of instruments, which is very convenient in a practice involving long distances, cannot be, or at least is great deal of interest to Dr Tilley's paper, and while not, offered in the forceps presented by Dr Stewart

While this instrument DR GFO E SHOEMAKER is, no doubt, safe in Dr Stewart's hands, it might not be so in those of others That toggle joint is a very powerful mechanical appliance, and the "shoulder" does not limit its action until the blades are A moderately large head quite close together would not let them get so near together, and a very violent and harmful compression would result from even moderate traction upon the handle

In reply to the first speaker, DR STEWART among the original forceps as represented in the older works were those with parallel blades, but I do not know of anything like this instrument course, I do not claim all the credit of this invention, but share it with the instrument maker, who carried out my ideas I was induced to have such an instrument made because of a number of complicated cases which came under my care, especially a difficult one in which I was called to assist a friend, who had been trying all night to get on the second blade of the forceps in a very narrow pelvis, where the child's head was jammed (in the right iliac re-I advised using the gion), and would not rotate second or female blade first, which we did with precaution in recrossing the handles, and the delivery I am not anxious to use was speedily effected My rule is not to forceps or to make lacerations apply instruments as long as there is any rebound to the labor

There need be no fear of the toggle-joint permitting the blades to approach too closely, as the shoulder can be adjusted to any desired distance new to me that a fœtus can be delivered without traction If a wedge is all that is wanted, the togglejoint is a better wedge than the cross-joint amount of compression is regulated by the necessities of the case If the mother is left alone, she compresses the head of her child in her labor the cases (eight) where I used this instrument, I could not find a trace of its mark twenty-four hours I would never use a handkerchief after delivery I believe that in cases of conto tie the handle tracted pelvis, where other instruments could not I had such an experience with deliver, this could a mannikin, in which the outlet was too narrow, failing with the cross-handles, I delivered with my instrument

CHICAGO MEDICAL SOCIETY

Stated Meeting, February 6, 1888

In the old THE PRESIDENT, W T BELFIELD, M D, IN THE CHAIR

DR ROBERT TILLEY read a paper on

MONOCUI AR DIPLOPIA WITHOUT MANIFEST LESION OF THE AFFECTED EYE

(See page 322)

DR HAROLD N. MOYER I have listened with a I should prefer to hear it discussed by some one more familiar with the subject, I do not feel like let ting a paper of this kind go without discussion The condition of unilocular diplopia as described by the doctor is certainly rare, one that will come under observation but once in a lifetime His conclusions regarding the pathology of the disease I think are fully justified We cannot but look upon a lesion of this kind as other than an affection of the brain, and I was struck with the similarity in some of the condi tions here described with the condition known as periodical ocular motor paralysis In those cases we have some of the symptoms which are described in In this condition, associated with other pen pheral disturbances, there is often distress in the stomach, pain in the eyes and even convulsions Of the 18 or 19 cases on record four have come to the autopsy table, but the autopsies have not established any definite pathology, whether the lesion was ba silar, cortical or nuclear, or the character of the lesion I fancy it is much the same in this condition, the few autopsies that have been obtained are confusing as to the nature of the basic pathology, the real lesion While I admire the doctor's in the nervous center exceptionally ingenious theory of an abscess con nected with the third ventricle rupturing, I think it was not clearly shown that was the exact condition It is ingenious, and in the absence of any other ex planation it might accepted provisionally

DR R TILLEY I have only one word to sav rela tive to my suggestion of the possibility of cerebral abscess, and it is founded simply on this fact that there are only two cases in which this phenomenon has been observed, on record as far as I can find, and I have searched as well as the means at my disposal would allow me I have sent to Washington for several volumes In the two cases where an autopsy has been made both have been associated with lesions in the cerebral hemispheres, one of them a blood clot and the other one an abscess in exactly the same With this peculiar lesion and these two previous cases with the lesion practically in the same location, we would be confined, as far as speculation is concerned, to some similar hypothesis In choosing between a blood-clot or hæmorrhage and a possi ble abscess, I accepted the possibility of an abscess simply on account of this fact that the child so sud denly got better I saw her, we will say it might be to-day, and had already prepared for an autopsy, the previous night, the Sister told me she had been burrowing her head in the pillow and complaining of severe pain in the top when she was delirous, and any medicine, without additional care, she became | August, 1831 slept well, got up and dressed and in a few days afterward went home on her holidays I cannot say how long, but about fourteen days, I imagine, from the time she began to get better, abscesses began to appear all at once, and it is the presence of these abscesses that made me suppose that the lesion corresponded to the abscess that was observed at the autopsy table, and by some means these abscesses were the expression of the previous abscesses that had existed

DR MOYER I would like to ask Dr Tilley if the reflexes and coordination were observed?

DR TILLEY There did not seem to be any difficulty in coordination, or anything of that kind There was quite a good deal of difficulty in examining the patient, just as there is when the patient is under the care of the Sisters, and I had to do the best I could, not as I would, so that the reflexes, etc., were not examined as accurately as I should have done under other circumstances

The Committee appointed to investigate the

PRIORITY OF THE DISCOVERY OF CHLOROFORM

made the following report

There are three claimants to the honor of the discovery, Liebig, of Germany, Soubeiran, of France, and Guthrie, of America

Liebig's Claim —Liebig claims to have published his discovery in November, 1831 (See Liebig's Annalen, vol 162, page 161)

Souberran's Claim - Souberran claims to have published his paper on ether bichlorique in October, 1831, in the Annales de Chimie et de Physique

Liebig shows (see Liebig's Annalen, vol 162, page 161) that the October number of the Annales de Chimie et de Physique was delayed in its publication, and that it did not appear until January, 1832 certainly is evident that it was not published in Octoentire month of October

Guthrie's Claim —In the January number, 1832, contents of the phial are as strong as I could con-I made not long ago "

(page 64, vol x1) we find an article by Dr Guthrie, without date, upon a "New Mode of preparing a Spirituous Solution of Chloric Ether," in which he says, "During the last six monts a great number of not only freely, but frequently to the point of intox-1cation

Dr Guthrie's paper on chloric ether must then still this vomiting continued, but suddenly, without have been in the hands of the printer in July or And if people had drunk of his better all at once Food staid on her stomach, she chloric ether for six months it would place the date of his discovery in the early part of 1831

We therefore conclude that Dr Samuel Guthrie is justly entitled to the honor of first discovering chloroform, and that the publication of his discovery antedates that of either Liebig or Soubeiran

Respectfully submitted,

F E WAXHAM, N S Davis, Jr, E WYLLYS ANDREWS

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FROM OUR OWN CORRESPONDENT)

PREVENTIVE TREATMENT OF SYPHILIS

Dr E B Bronson has presented before the Academy of Medicine an able argument, based on theoretical grounds rather than on any practical results as yet achieved, on preventive treatment during the primary stage of syphilis By preventive treatment, he wished it to be understood, was not necessarily meant abortive treatment, but the employment of such measures as tend in any degree to abridge or mitigate the subsequent course of the infection and its effects upon the constitution The scheme essentially consists in the local use of antisyphilities by a method designed to bring the remedy in direct communication with the whole of the affected region in primary syphilis, including more particularly the initial and the diseased inguinal glands As commonly practiced this regional treatment has been chiefly confined to the use of mercurial hypodermics beneath the initial lesion, unless this was first excised, and into the mass of indurated lymphatic glands It But the plan, Dr, Bronson said, might be easily ex-The field of operation might include all of tended ber, as it contains the meteorological report for the that district whose lymphatic vessels tend in their course towards the ganglia which are the seat of the When the initial lesion was situated upon of Silliman's American Journal of Science and Art, the genitals the area most available would consist of we find an article by Dr Samuel Guthrie, dated the external genitals, the perineum and the upper, September, 1831, in which he says, "A bottle and inner and anterior aspect of the thighs, together with phial contain alcoholic solution of chloric ether The the inguinal region and lower part of the abdomen By multiple small injections and by inunctions the veniently prepare them, but not equal to some which effort is made to introduce mercury little by little into the lymphatics, with the hope of its being con-In the October number, 1831, of the same journal, veyed to the diseased glands with the least amount of offense to the normal tissues, and yet in sufficient amount to destroy the infectious germs or to retard their multiplication

When hypodermics are used it is claimed that it is persons have drunk of the solution of chlonc ether not necessary that the agent should be injected in large quantity in any one spot nor in a concentrated form, so that $\frac{1}{20}$ of a grain, or less, of the bichloride, We find a notice to contributors in Prof Silliman's introduced in separate injections of not over 10 of journal, in which he says, "Communications to be in a grain each, would afford a more reasonable hope of hand six weeks, or when long, and especially with effectively reaching the seat of the disease than a drawings, two months before the publication day" much larger dose given by the mouth Dr Bronson uses a solution of 1 part in 400 or 500 of mucilage the syphilitic poison, we have to conclude that the and water, with a small quantity of common salt chancre is not positive evidence of constitutional added Of this several injections are made, of 4 or 5 minims each, distributed over different parts of the The discomfort caused cutaneous area mentioned is insignificant, especially if care be taken to avoid any escape of the fluid into the corium, and into the skin of the abdomen and thighs the injections may be repeated daily, or every second or third day gether with these, but more especially in situations where hypodermics are less admissible, as in the penneum and on the penis and scrotum, inunctions also may be employed, and for this purpose a mercurial It might soap is preferable to mercurial ointment be said that regional treatment is also constitutional treatment, but he contends that it is something more than this, and that it is at all events much better than doing nothing at all, as is advised by most authorities

It will be seen that this method of treatment is based on the supposition that syphilis is at first a local rather than a constitutional disease, and also that it is a parasitic disease, which, although the syphilitic germ has not as yet been positively determined, Dr Bronson considers explains the phenomena presented by it in a more satisfactory way than any other, and constitutes the best working hypothesis Dr Bronson believes that when for dealing with it first implanted in the tissues the syphilitic virus is, mainly at least, confined to the spot where the future chancre is to develop, that here finding a favorable soil, it grows and slowly increases until its intrusive presence becomes a source of offense to the tissue harboring it, and that gradually inflammatory action From this source of generation the virus contaminates sooner or later the nearest lymphatic glands, which in turn become other sources of supply, until finally, from these multiple foci, the whole According to this view organism becomes infected the main route to the general circulation is by way of the lymphatics and through the receptaculum chyli, though it is possible that an insignificant portion of the veins may pass into it immediately

According to the opinion generally current among syphilographers, Dr Bronson went on to say, directly upon its inoculation the syphilitic virus passes into the general circulation, and the incubation pertains, not to any materies morbs in the vicinity of the point of inoculation, but to something in the blood, while the initial lesion is the first tangible sign of the blood disease, reflected in some arbitrary and inexplicable manner to the spot where the virus effected its original entrance primary stage of syphilis upon which the symptomatic character of the initial lesion is based 1, that an individual who has been inoculated with syphilis has always acquired immunity from any subsequent inoculation of the syphilitic virus before the chancre develops, and 2, that extirpation of the chancre does not prevent the regular course of the disease it is true that, as a general rule, auto- and reinoculation in the primary stage fail to produce any perreported to show that the rule is not invariable, and instance there was no further trouble whatever about that, if immunity is the test of general saturation with the local lesion, and not the slightest enlargement of

disease, and hence cannot be its symptom

It can hardly be said, he continued, that the results of excision make conclusively either for or against the hypothesis of the local character of pn mary syphilis As a manifestation of the primary stage the chancre is hardly of more importance than the accompanying adenopathy That the indurated lymphatic glands in the vicinity of the initial lesion are contributory sources of infection there is little cause to doubt, and were the initial removed, they would doubtless still suffice to contaminate the sys While, then, it cannot be affirmed of any period in the course of the malady that the disease is strictly limited to the site of the initial lesion, the proposition that syphilis is at first essentially a local disease remains still uncontroverted An infection whose limits are circumscribed and more or less defi nite is a very different thing from one that has al ready taken possession of the entire organism

As to the value of medicinal antisyphilitic treat ment during the primary stage, he said, there is a While it is pretty generally diversity of opinion conceded that the employment of mercury in this stage tends to retard the appearance of constitu tional symptoms, the apprehension has been expressed by some that, in repressing the outward manifestations of infection, we are risking a more There is an serious implication of internal organs inconsistency, however, in the idea that for the month or so of primary syphilis the same remedy is to be shunned, because of dangerous after-effects, whose continued employment during the years of the con stitutional disease is accepted without demur

Even though mercury does act as an antiseptic in syphilis, Dr Bronson thought it very questionable whether it can have any effect upon germs circulating in the blood, and that it is much more probable that the effect would be exerted where both the germs and the mercurial would be apt to accumulate, as at such places of elimination as the skin, or where de That mercury does exert a posited in the tissues most decided influence upon the local manifestations of syphilis when topically applied there is undoubted evidence, then why should not this potent influence be brought to bear directly upon these local lesions which are also dangerous foci of infection in the pri-

mary period of the disease? In the discussion of the paper Dr E L Keyes said that he would have been glad if Dr Bronson Two facts are alleged concerning the had presented some practical results of the method disease becomes general from the time that it is acquired, and that the virus therefore gets beyond the lymphatic chain before the appearance of the initial lesion, which occurs only after a period of inocula He related a case in which, notwithstanding the complete excision, within twelve or fifteen hours after suspicious connection, of a small livid papule on the dorsum of the penis, the most marked consti tutional symptoms subsequently developed

The objection to local treatthe inguinal glands ment before the diagnosis of syphilis had been established with the only agent which was of any service during the subsequent course of the disease, consisted in the fact that it was likely to throw more or less discord into the life of the patient, while, if constitutional symptoms did occur, they were apt to run an uregular course He then related the case of a medical student who, contrary to his advice. commenced a mercurial course in consequence of a slight abrasion of the prepuce At the end of six months, no evidence of syphilis having in the meanwhile presented itself (if the enlargement of a single one of the post cervical glands were excepted), he gave up the treatment Within two years, however, he became the subject of hemiplegia, and eventually died of syphilitic brain disease As a rule, he believed it was much better to delay treatment until the diagnosis was confirmed by the appearance of secondary symptoms Otherwise a patient might be treated for syphilis who did not have the disease at all, and he referred to an instance in which a gentleman who never had the disease took bichloride of mercury for twelve years in consequence of a mistake of this kind

Dr R. W Taylor, while agreeing with Dr Bronson that syphilis is at first a local affection, was convinced that neither cauterization nor excision would prevent constitutional infection, and stated that there was already evidence enough to show that the disease cannot be exterminated at the radicals He thought, therefore, with Dr Keyes, that it was most rational to begin the treatment with the secondary stage, since by so doing a more orderly sequence was secured. and the moral effect upon the patient was also much In primary syphilis the circumstances were entirely different from what they were later on, as we had to deal with a nascent disease which exhibited marked activity, and hence the most powerful remedies were required to destroy the new growths so rapidly forming He believed it was impossible, however, to safely employ mercury, the only agent at our comthe desired effect As far as we could judge, mercury acted by causing fatty degeneration of the syphilitic cells, and as these cells did not become matured seemed to him irrational, as a rule, to use this remedy until the secondary stage of the disease was reached, especially since it had been shown that syphilis does not run the tractable course in those who are treated early as in those from whom mercury is withheld until after the primary stage

In concluding the discussion, Dr Bronson said that in the paper he had acknowledged that his views were based largely on theoretical grounds, and he had merely endeavored to point out the indications which called for early treatment If the disease was primarily constitutional, no such indications existed. while the fact that the disease was primarily local did not imply that excision of the initial lesion

advanced beyond the lymphatics In order to abort it, it would be necessary that all the foci of infection should be eliminated, and this had been proved to be impossible Believing, however, that the disease was still local, he thought it was philosophical to treat it regionally, and thus counteract the infection as far as possible in this early stage. The objections which had been urged to such a course seemed to him altogether trivial, and he felt confident that any patient would prefer to take the chances of this prompt treatment rather than do nothing until the fully developed symptoms of the secondary stage presented themselves Although he had no results to offer, he could abundantly testify from his personal experience that the method was entirely feasible, and he certainly thought it was worth a fair and systematic trial

CHARITY HOSPITAL OF NEW ORLEANS

Petition of Medical Students of Tulane University of Louisiana, with Reference to the Appointment of Resident Students-Reply of Joseph Jones, M. D., President of the Louisiana State Medical Society

MEDICAL DEPARTMENT OF TULANE UNIVERSITY OF Louisiana.

New Orleans, February 13, 1888 To Professor Joseph Jones, M.D., President of the Louisiana State Medical Society

Sir -It is with feelings of great pleasure and satisfaction that we, the undersigned, students of the Medical Department of Tulane University of Louis-1ana, acknowledge your efforts to have repealed the Legislative Act of 1886, whereby the selection of medical students for positions in the Charity Hospital was restricted to applicants then resident in the State of Louisiana

Believing, as we do, that a better selection can be made by choosing the most worthy, regardless of section or State, and furthermore, believing it to be of the greatest importance to have the ablest and most proficient students as sub medical attendants mand for this purpose, in sufficient quantity to have in immediate charge of the various wards of the institution, subservient to the orders of the attending physicians and surgeons, thereby securing the most careful and intelligent attention, medical and minisuntil the appearance of constitutional symptoms, it terial, to the thousands of suffering poor who seek the comfort and shelter of this noble institution to be cured of their diseases and healed of their wounds, and believing, furthermore, that the continued enforcement of said act will tend to impair the growth of the Medical Department of Tulane University, said Medical Department having been enabled to offer her most proficient students to the service of the Charity Hospital regardless of section or State, and at the same time offering, as an incentive to all students desirous of so doing, the opportunity to compete in examinations, necessary to appointment, to resident studentship

Whereas, the continued prosperity of the above mentioned University, and the interests of the Charshould abort it In his argument he had expressly ity Hospital, are matters of great importance to us, discarded excision as a means of abortion, because therefore we respectfully ask that you, in your offiby the time the chancre appeared the disease had cial position as President of the Louisiana State Medical Society, give this matter the attention it deserves, and use your efforts to have it brought before the next Legislative Assembly, urging its repeal

We, knowing your devotion to your chosen profession, to the State of Louisiana and to the city of New Orleans, to the Charity Hospital, to which you the hospital It is more important that we should have given so many years of valuable service, conferring benefits to suffering thousands, whom you have treated within its walls, whose testimony can be had from many portions of the civilized world, a knowledge of the above facts makes us feel that we can ask this of you with the confident assurance that your best efforts will be expended in its accomplishment

We know your kindly regard for ourselves, and your untiring efforts to place us in the possession of the most valuable practical and advanced ideas in medical science, and appreciating your disregard for self-interest and advancement, we hope to emulate those noble and elevated sentiments whereby we can rise superior to sectional thought, and render justice where merited We hope that your efforts may be strengthened to the accomplishment of the purpose as herein set forth, and again asking that you give this matter your attention, and use your best efforts to have it brought to the attention of the Legislature of Louisiana, we hereunto subscribe our names

A W Boren, (Signed) and by 160 other students of the Med Dep't of the Tulane University of Louisiana

> 156 Washington Avenue, 4th District, New Orleans, La, February 15, 1888

To A W Boren, and the medical students of the Med Dep't of Tulanc University of Louisiana

Gentlemen -I have the honor to acknowledge the receipt of your communication of February 13, 1888, and beg leave to submit the following act to which you refer, containing the proscriptive legislation regulating the mode of selecting the resident students of Charity Hospital of New Orleans, was passed by the General Assembly of the State of Louisiana at the regular session of 1886, Act No 47, "Making appropriations to defray the ordinary expenses of the State Government " "Approved July 3, 1886, by S D McEnery, Governor of the State of Louisiana" The following is the portion of Act 47 which relates to the subject referred to in your communication

"Charity Hospital in New Orleans To support of Charity Hospital in New Orleans for year ending June 30, 1887, forty thousand dollars For year ending June 30, 1888, forty thousand dollars Provided, that none but resident Louisianians be admitted as resident students. Act of the General As- from the following extracts from the proceedings of

sembly of Louisiana, 1886, p 72 " Will not discuss the question of the legality of act of the General Assembly of Louisiana, which cs an appropriation for the support of the destisick, contingent upon the performance of an by the Board of Administrators, of D McEnery, 18 llency,

nativity of

to be appointed, and not to the mode of expenditure of the funds devoted to such charitable purposes as the purchase of food and medical supplies, and the payment of the salaries of the house surgeon, assistant house surgeon, treasurer, and other employes of inquire into the official interpretation of the special and proscriptive legislation of Act 47

Through the courtesy of Edwin Marks, Esq, Secretary and Treasurer of the Charity Hospital, we have been able to make the following extract from the letter of Governor S D McEnery, of February 9, 1887, giving his official interpetration of that part of Act 47 which relates to the class of students to be

selected as resident students

EXECUTIVE DEP'T STATE OF LOUISIANA, BATON ROUGE, February 9, 1887

Edwin Marks, Esq, Sec'y Charity Hospital, N O Dear Str -My interpretation, in the Act of the General Assembly referred to, of the words "resident Louisianians," is that they mean citizen Any citizen of the State is a Louisianian, and the words do not imply or mean that the person should be native born I presume that your inquiry is made in order to ascertain whether the medical students at the Tulane University from other States can be admitted as resident students in the Hospital, from the fact of their residence in the State during the time they have been pursuing their studies This residence is not sufficient. If the student is under age, he of course cannot select his residence, but if he is of age and came to the State with the intention of acquiring a residence in the State, and of remaining permanently here, then he is entitled to admission

It is the intention the act of residence coupled with the intention of remaining permanently, which fixes the residence, and which will entitle the party to become a resident student of the hospital (Mc

Rowan vs McGwin, 15 and 637)

Respectfully yours, S D McEnery, Governor (Signed)

Regarding the action of the General Assembly of Louisiana of 1886, in Act 47, relative to the appointment of resident students in the Charity Hospital as unjust and unwise, and as injurious to the best interests of the students and patients, I embraced the earliest opportunity to obtain the sense of the high est medical authority in the State, to the end that the obnoxious clause might be repealed, or rather that such legislation might never again be repeated

To accomplish this end, I attended the meeting of the Louisiana State Medical Society held in the month of April, 1887, in Alexandria, as will be seen

Resident Students of the Charity Hospital of New

Orleans, La

Dr Joseph Jones offered the following WHEREAS, The Charity Hospital of New Orleans receives the distressed and destitute, sick and wound ed, of all the States of the Union, and all the nations the world Be it

Resolved, By the members of the Louisiana State Medical Society, that the position of resident students in the great and noble institution should be open to the competition of all honorable, intelligent and accomplished medical students Be it further

Resolved, That the General Assembly of the State of Louisiana be respectfully and earnestly requested by the Louisiana State Medical Society to rescind the law enacted by the General Assembly of 1885, excluding all medical students from competition for the position of resident students of the Charity Hospital except natives and residents of Louisiana

Resolved, That the action of the General Assembly of Louisiana of 1885 was in violation of those future true, generous and patriotic principles which have ever characterized the philanthropic citizens of

Louisiana

Resolved, That the President of the Louisiana State Medical Society be empowered to urge the abrogation of this law of 1885, establishing, for the first time in the history of Louisiana, the unwise and illiberal policy of excluding from the competitive examination of the medical service of the Charity Hospital the intelligent and enterprising medical students of other States

Dr Joseph Jones supported the preceding resolu-

tions by the following argument

(a) The object of this great and noble institution is the relief of suffering humanity, the healing of disease, the restoration of the sick to the performance of the active duties of life, and the advancement of the highest intellectual, moral, and physical welfare of the commonwealth

- (b) The generous citizens of Louisiana have not confined their benefits and ministrations to their own Upon a careful examination and classification of statistics of the Charity Hospital of New Orleans during the period of forty years (1836-1876), we find that 310,659 patients were admitted, and of this number 248,011 were foreigners, 54,403 natives of the United States outside of Louisiana, and only 11,761 were natives of Louisiana It is evident from these statistics that the noblest and broadest charity has actuated the citizens, and especially the medical profession, of Louisiana, in the charitable ministrations to the destitute sick of all States and countries
- (c) By again throwing open the field for honorable competition of all accomplished medical students, regardless of their nativity, the State of Louisiana will secure the most effective service and achieve the greatest good to suffering humanity

Duly seconded and carried

In conclusion, allow me to direct the attention of the students of the Medical Department of the Tulane University of Louisiana, and of our sister States, who may in future desire to compete for the position of resident students in the Charity Hospital of New Orleans, to the following important facts

1 That Act 47 is not a law of the State of Lou-

2 The operation of Act 47, as far as the appointconcerned, ceases absolutely on July 1st, 1888

3 Unless the General Assembly of Louisiana, at its subsequent meeting, is induced to repeal this unwise and proscriptive legislation, the Board of Administrators of the Charity Hospital of New Orleans will, after the 30th of June, 1888, be untrammeled in their appointment of resident students or let us hope that they will, act regardless of State lines, basing the appointments upon merit and merit

As your friend and professor, and as a representative of the medical profession, I shall cheerfully comply with your request, and exert any influence at my command to avert similar legislation in the

With thanks for the kind and courteous terms in which you have been pleased to couch your petition, and with kind regards, I remain as ever

Your friend, Joseph Jones, MD, Pres't Louisiana State Medical Society

MERCURY IN THE BONES

Dear Sir —In The Journal, Jan 21, page 95, column "Book Reviews," and in commendation of "600 Medical Don'ts," the review says "To the other 'don'ts' might be added Don't imagine that mercury can get into your bones," etc

What then shall we do with authority so high and so generally accepted as Bartholow? In his "Materia Medica," fifth edition, pp 248, 249, Bartholow says "Mercury is deposited in the textures, interferes with the normal nutritive processes, and is found in all the secretions and excretions A marked degree of anæmia, loss of flesh, loss of hair, eczema, a foul breath, diarrhœa, the stools being very fetid, are the characteristic symptoms of the action of mercury on the solids and fluids of the body

As a result of the changes in the composition of the blood, and of the direct action of the metal on the renal epithelium, albuminuria is one of the symptoms present in cases of Without the use of special means to mercurialism render it soluble, and despite the use of such means, sometimes mercury remains permanently in the organ-When extremely severe cases of salivation were not uncommon, permanent damage to the osseous structures often occurred, and globules of mercury could be shaken out of the dried bones of such subjects" The italics are all mine

The reading of proverbs and terse dogmas is generally pleasing though misleading, and the time has been when the writers had everything their own way The proverb writer of to-day is liable to be inquired of occasionally before his sayings are accepted as finalıtıes

Wishing the addendum to "Don't" above quoted to be correct, I beg leave to ask the writer for the Very truly,

INQUIRER.

["We have never seen any alceration of the skin or disease of the bones, or paralysis, in consequence ment of resident students of the Charity Hospital is of the therapeutic use of mercury, even in cases in which its misuse was carried to the extreme"

Von Zeissl, "Pathology and Treatment of Syphilis,"

p 376
"The attempt which has been repeatedly made by different authors to attach tertiary lesions, and especially lesions of the bones, to the mercury which was administered during the earlier stages of the disease (syphilis), is now shown to be groundless, by Persons who labor with abundant evidence mercury, and who are constantly exposed to its fumes, are by no means subject to affections of the bones Virchow, who has been quoted as supporting this error, strongly repudiates it in his recent work on syphilis" Bumstead and Taylor, "Venereal Diseases," 1883, p 734

The shaking of metallic mercury out of dry bones is about as good proof that it was deposited as mercury during life, as seeing a saddle under a bed is proof that the patient has eaten a horse When one finds mercury in a dry bone he may allay his excitement by the reflection that the subject from which the bone was obtained was injected with a mercurial dermitology. He will build a laboratory for histological and preparation after death. There is no contributions of the same than the subject from which the bone was obtained was injected with a mercurial dermitology. He will build a laboratory for histological and There is no earthly reason preparation after death why mercury should be deposited in bone as mercury causing bone lesions is concerned, do we know of any such thing as mercurial ostenis? We know that mercury is given for syphilitic affections And we know that of bone, and with good results mercury, given to ptyalism, is frequently valuable in non syphilitic osteitis

Are we to believe, then, that mercury can itself cause similar lesions? This is good similar similabus,

but very poor pathology

When chemists examine the dead bodies of persons supposed to have died from the effects of mercural preparations, they do not investigate the bones, They have no reason to investigate but the viscera In works on the chemistry of poisons the the bones And in such cases bones are not even mentioned of poisoning has anyone ever seen any bone lesion thought to have been caused by mercury? The deposition of mercury in the bones is a Thompsonian and old woman's myth Reviewer]

MISCELLANEOUS.

HEALTH IN MICHIGAN FOR JANUARY, 1888 -For the month of January, 1888, compared with the preceding month the re ports indicate that pneumonia increased, and that diarrhœa de-

Compared with the preceding month the temperature in the month of January, 1888, was much lower, the absolute humid ity, the relative humidity, and the night ozone were less, and

the day ozone was more

Compared with the average for the month of January in the nine years 1879 1887, diphtheria, intermittent fever, whoopingcough consumption of lungs, pneumonia, bronchitis, typo ma larial fever, and influenza were less prevalent in January, 1888

For the month of January, 1888, compared with the average of corresponding months in the nine years 1879 1887, the temperature was lower, the absolute humidity, the relative humidity, and the day and the might again uses less and the day and the night ozone were less

Including reports by regular observers and others, diphtheria was reported present in Michigan in the month of January, 1888, at 57 places, scarlet fever at 54 places, typhoid fever at 39 places, measles at 20 places, and small pox at 1 place

Reports from all sources show diphtheria reported at 19 places more, scarlet fever at 14 places more, typhoid fever at 19 places more, and small pot at i place more in January, 1888, than in the preceding month

A part of the increased prevalence of communicable diseases is doubtless only apparent, because a knowledge of a large num ber of outbreaks, not otherwise reported, was obtained from the annual reports of health officers during the month of January

THE MEDICAL ASSOCIATION OF THE STATE OF MISSOURI will hold its next annual meeting in Kansas City, Mo, April 17, 18 and 19, 1888, at Music Hall A large attendance is expected

STATE MUDICAL SOCIETY OF ARLANSAS -The Thrteenth Annual Session of this Society will be held at Fort Smith, April 25, 26 and 27, 1888, commencing on Wednesday, April 25, at IIAM President, W P Flint, M D, of Washington, Ark, Secretary, L P Gibson, M D, Little Rock, Chairman of the Committee of Arrangements, L L Saunders, M D, Fort Smith, Ark

PROFESSOR UNNA'S COURSE IN DERMATOLOGY —On April 1 Professor P G Unna, of Hamburg, will begin a series of half his clinic and polyclinic.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM MARCH 3, 1888, TO MARCH 9 1888

First Lieut W W Fisher, Asst Surgeon, sick leave extended one month on surgeon's certificate of disability S O 50,

A G O, March 2, 1888

First Lieut Paul Shillock, Asst Surgeon (recently appointed), ordered for duty at Ft Assimboine, Mont S O 50, A G O, March 2, 1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U S NAVY, DURING THE WEEK ENDING MARCH 10, 1888

Asst Surgeon E P Stone, detached from the Coast Survey
Str "Bache," and to hospital, New York, for treatment
Asst Surgeon James F Keeney, commissioned March I, 1888
Surgeon George R Brush, ordered to the "Omaha" when
"Pensacola" arrives at Aspinwall
P A Surgeon Victor C B Means, to the "Omaha" when
"Pensacola" arrives at Aspinwall

"Pensacola" arrives at Aspinwall

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES
OF MEDICAL OFFICERS OF THE U S MARINE HOS
PITAL SERVICE FOR THE TWO WEEKS ENDING
MARCH 10 1888

Surgeon W H H Hutton, to proceed to Brunswick, Ga, on special duty, March 5, 1888 Detailed as President of Board to select site for Gulf Quarantine Station March 10, 1888. P A Surgeon H R Carter, detailed as recorder of Board to select site for Gulf Quarantine Station March 10, 1888

P, A Surgeon Eugene Wasdin, granted leave of absence for thirty days March 8, 1888

Asst Surgeon W D Bratton, ordered to examination for promotion March 7, 1888

Surgeon G W Stoner, detailed as chairman of Board for phy stcal examination of officers and candidates, Revenue Marine

Service February 28, 1888

A Surgeon F M Urquhart, detailed as recorder of Board

A Surgeon F M Urquhart, detailed as recorder of Board for physical examination of officers and candidates, Revenue

Marine Service February 28, 1888

A Surgeon P C Kalloch, relieved from duty at Pittsburgh, Pa, ordered to Marine Hospital, San Francisco, Cal March

Pa, ordered to Marine Hospital, 2, 1888

P. A. Surgeon P. M. Carrington, relieved from duty at Marine P. A. Surgeon P. M. Carrington, relieved from duty at Marine P. Hospital, San Francisco, Cal, ordered to assume charge of Hospital, San Francisco, Cal, ordered to assume charge of Service at Pittsburgh, Pa. March 2, 1888

Asst. Surgeon J. J. Kinyoun, granted leave of absence for twenty days. February 28, 1888

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LECTURE

THE OPERATIVE TREATMENT OF RETROVERSION ALEXANDER'S OPERATION

A Clinical Lecture delivered at St Luke's Hospital, BY HENRY T BYFORD, M D, OF CHICAGO

GENTLEMEN -Until recently the treatment of retroversion of the uterus had been a standing reproach to gynecology An inspection of older hosa cure of chronic retroversion Retroversion pes sames of various kinds and modifications follow each other like the waves of an unquiet sea, and disappear without bringing any cure with them Now, however, since operative gynecology has taken the subject in hand, incurable cases are fast becoming the excep-

Operative procedures are of two kinds those for the purpose of restoring the uterus to a natural condition, and those for restoring the uterine supports to their natural functions It is to the latter class of operations that I wish to call your attention, suppospnate treatment

or retaining, and the perineum or supplementary the pelvic organs form, with these organs and their pressure to which it is liable surrounding connective tissue, the pelvic roof When speaking of them as uterine supports, we divide them across the pelvis from side to side and including the uterus in their embrace, the sacro uterine ligaments,

front of the axis of the superior strait, so that the abdominal pressure will bear upon the posterior surface of the uterus All of these tissues suspend the uterus in the center of the pelvis with the fundus in front of the axis of the superior straight, and the external os somewhat behind it When the body is in a state of rest these elastic supports easily sustain the weight of the uterus, and that of the superincumbent abdominal viscera which are also suspended and bear but slightly upon it During muscular action, however, the abdominal pressure bears upon the posterior surface of the uterus and forces the anterior wall of the whole uterus downward toward pital reports will show plenty of cures of almost the pelvic outlet. The resistance of the sacro-uterine every other non-malignant ailment, but scarcely ever ligaments tends to hold the cervix up from the coccyx and favors a rotation of the external os backward toward the sacrum as the fundus is pressed down Thus we see that even when the uterine ligaments are not strong enough to resist this abdominal pressure they normally direct the lower end of the uterus back upon the pelvic floor and the upper end forward upon the firm pubo-vesico-uterine septum

The pelvic floor or retaining support is made up of the lower end of the sacrum, the coccyx, and the coccygeo-anal ligament in the median line, by the ischial bones and obturator internus muscles laterally, between these points by the sacro sciatic ing that the uterus itself has already received appro- ligaments, pyriformis, coccygeus, levator ani and levator vagina muscles, the levator and recto-vesical The uterine supports may be divided into three fasciæ, and lower down by the connective tissue padclasses, the pelvic roof or sustaining, the pelvic floor ding of the ischio-rectal fossa, the gluteal muscles These structures form a firm floor capable of The expansion and duplicature of the perineum over supporting the uterus when borne against it by any

The perineum, supplementary uterine support occupies the space between the pubic rami in front into five portions, the broad ligaments extending of the anus and extends in the median line back along the coccygeo-anal ligament to the coccyx It is made up of the recto-vesical fascia and levator extending from the posterior surfaces of the broad vaginæ, or vaginal sphincter, supported by it, the ligaments and uterus near the junction of the body perineal septum or triangular ligament containing the and cervix, around the rectum to the upper and constrictor urethræ, the perineal fascia containing the middle sacral regions, and suspending the cervix a constrictor cumii or vulval sphincter and the transtrifle back of the axis of the superior straight, the versus perinei, and by the sphincter ani with its facial pubo vesico uterine ligament, extending from the coverings. The perineum forms a barrier across and pubes to and around the bladder and cervix, and just below the pelvic outlet or space between the holding the cervix away from the sacrum, and the levator and behind and the pubes in front. It is firm round ligaments extending from the uterine horns or enough to act as a support to the viscera which peneshoulders like long narrow curved arms, forward into trate it and terminate in it, and at the same time is the inguinal canals The function of the last men- sufficiently elastic to allow the visceral contents and tioned ligaments is to keep (or return) the fundus in fruits of parturition to pass through it It supports the uterus indirectly by supporting the parts in front the upper edge of Poupart's ligament, and near the of and below it

In every complete retroversion of a normal sized uterus the external os lies in front and the fundus behind the axis of the superior strait, in slighter forms the displacement is the same in kind but less in Hence our operations must either assist in holding the cervix back of the axis of the superior strait, or the fundus in front of it

For holding the fundus forward two operations have been performed, viz (1) stitching the fundus uteri or its appendages forward against or near the abdominal walls or bladder, and (2) shortening the round ligaments The former, first done by Kæberlé, requires that the abdominal cavity be opened, and is seldom justifiable except as secondary to a laparotomy We can usually employ other for another purpose equally efficient and less hazardous means The operation for shortening the round ligaments was conceived, successfully performed and established as a therapeutic measure by W Alexander, of Liverpool, in face of from the ring and can be recognized with ease for it almost universal opposition The most telling objections against the operation were that it was difficult to perform (an exceedingly puerile one), and that it was unscientific to operate upon the round ligaments because the sacro-uterine ligaments were the chief ones The latter objection is rendered untenable by the fact that when we draw the fundus forward we restore the normal direction of the uterine axis with reference to abdominal pressure although the whole uterus may be a trifle forward of its natural location, and by the fact that after the os is rotated backward the sacro-uterine ligaments tend to retract, and regain I would like to remind you here that the traction of the shortened round little shorter-meet with no arteries-and succeed as their supporting function ligaments are not antagonized by abdominal pressure, but turn the fundus so that abdominal pressure assists

This patient has a flexible uterus and a relaxed state of the sacro uterine and broad ligaments, allowing the cervix to turn forward and upward against the vesico-vaginal septum and the fundus to become fitting pessaries by myself, and afterwards by another loosely both edges of the ring to the ligament I now gynecologist, and a persistence of distress, inability to attend to her duties and hysterical symptoms, in spite of local and general treatment, have influenced public attachment me to perform Alexander's operation

As you see, she is a young, well developed, somewhat muscular woman, without any superabundance The ligaments should be of good size and spine and extend it for an inch and a half outward apt to be poured out freely during the first few hours along the upper edge of Poupart's ligament cut brings us through the skin, another through a ficial fascia I have struck the external pudic artery left side similarly we sprinkle a few grains of iodoform on the inner side of the incision and the superficial in each wound, the the external stitches and lay one epigastric on the other, both of which in this case of these pieces of lint dipped in a 10 per cent solu are so large as to require fine catgut ligatures Below tion of carbolized glycerine over each wound this deep layer of the superficial fascia we seldom fore removing the uterine probe I slip an Albert us down upon the external ring which is easily felt As the patient will now wear it with comfort I will by the force and are less than the force are less than the force are less than the force and are less than the force are less than the force are less than the force and are less than the force and are less than the force and the force are less than the force are less than the force and the force are less than the force are less by the finger end as a long narrow depression along leave it for six or eight months, or until a permanent

pubic spine With a probe-pointed fascia scissors I now cut all the tissues to the entire extent of the incision, introduce these small tracheotomy retractors, and have a clear bloodless field for work. An incision is now made from the pubic spine along the upper edge of Poupart's ligament right over the inguinal ring and as far as the depression is felt to extend A slight bulging of fatty tissue shows that the inguinal canal is I seek for the ligament at the junction of the pubic spine and Poupart's ligament, and by looking carefully can see a delicate white nerve filament running over some pinkish slightly striated tissue I cut the nerve, which is the genital branch of the genito crural, and take up the tissue under it with the forceps, being sure to keep near to the pubic spine and Pou The thin fascia connecting it with part's ligament the inferior external pillar is punctured by my broad hook and as the tissues are held up the fascia snipped toward the inguinal canal The ligament is now free By means of the hook I is a large muscular one pull gently upon the ligament, separate the surround ing connective tissue, which forms a very loose sheath containing here and there aponeurotic bands that require section with the scissors The ligament is strong, however, grows larger as it passes up the canal, and the connective tissue looser and more Pulled again, the ligament slips easily separated gradually out of the canal, drawing an inverted portion of the peritoneal covering with it The ligament may now be said to run I now drop it, introduce a small clean sponge into the incision, and cut for On this side I make the incision a the other easily as before in making the ligament run While Dr Hoag replaces the uterus with a sound, I strip the inverted peritoneal sheath back and, the uterus being replaced, I pull on both ligaments until the sound in the uterus is felt to move While Dr Foulks holds the left one I will take three sutures with fine silkworm-gut through each edge of the ring and the round ligament as thus pulled out, and approximate cut off the projecting loop of the ligament and fasten the free end to the connective tissue at its normal A few drachms of 1 per cent carbolized water, injected into the ring under the ligament cleanses the inguinal canal perforated rubber dramage tube, which I also slip under the ligament well into the canal, will pre vent an accumulation of the bloodly serum which is One Using silk-wormgut for the external stitches, I carry the one nearest the pubic end of the incision Having treated the through the round hgament Another cut brings Smith hard rubber pessary over it and into position

nurse will put a little absorbent cotton over and around the dressing and fix it all in place by a double She will change the dressings as often T bandage as saturated by the discharges

The after treatment is based upon ordinary surg-In from twelve to eighteen hours I the drainage tubes until it comes out clear twenty four to thirty hours I shall remove the tubes, wash out the drainage holes, sprinkle iodoform over all the stitches and then cover them with pads of so that I may not be able to recognize anything 10doform gauze In this way all bloody serum is removed and primary union under a dry dressing anterior surface of the pubes near the spine, and External sutures are removed in 8 days

tion will undoubtedly present more difficulties about the broad ligaments the cervix is one of the indications of such trouble, ligament a complete and unhampered replacement impossible as pessaries do not hold the uterus in good position, the other similar looking tissues I have operated in a few to relieve her in the end relief has finally occurred She is a little fleshier than the first patient, but is rather deficient in mus cular development, hence, I expect to find a smaller ligament and a greater abundance of connective ligament run

and, not reaching the arteries on either side, scarcely bleeds at all superficial fascia, and I will illustrate a mistake often of it is left made, that prevents the ligament being found may know it by the springing up of the fat make an incision over the ring about half an inch long, and the fat between the deep layer of the sup erficial fascia and the abdominal muscles, bulges up as if from the ring You may hunt about in this supposed ring for hours, as others have done, and not one half the diameter find any ligament We now cut through this deeper observed Feeling about again I at last find a de- condition of affairs on the other side

readjustment of the tissues will have taken place The hour-it is a depression filled with fat just below Poupart's ligament We must, therefore, in this case disregard depressions and cut down upon unmistakable unvariable landmarks I place my knife just external to the pubic spine and cut through the fascia along the upper edge of Poupart's ligament, for the ring must be here I am through, but I see no shall inject some more of the carbolized water into round ligament, only fat and connective tissue In from Picking away a little fat I cannot be certain what I If I now make the mistake of poking about in the inguinal canal, I will disorganize the tissues

Remembering that the ligament is attached to the also to the external ring, I carefully take up the tis-We have here another patient in whom the opera- sues that he against the upper edge of Poupart's She ligament near the spine, perforate the thin fascia had some pelvic inflammation after the birth of her stretched between the tissue raised and the external child about two and a half years ago, and, although pillar with my broad hook, and feel confident that I apparently cured, has some faintly palpable hold the round ligament I dissect off the fascia peritoneal and cellular indurations and contractions underneath, pull off the connective tissue fibers at A slightly bluish hue of the sides and above, but still cannot recognize the The tissue remaining on my hook is and is a condition that should lead us, before per- somewhat ragged, seemingly too small, and, although forming Alexander's operation, to examine the pa- I have separated this tissue quite deep into the ring, tient under ether, and determine whether the ad- it will not pull out nor run If I pull any harder it hesions and contractions might not be such as render | may break, in fact is already stretching | Now there are a few characteristics of the round ligament and In this case the fundus can be laid flat over the blad- its attachments that will enable me to determine der, but less easily than in the other case However, whether to go ahead with this or to take up one of If this is an and as there are no direct adhesions to prevent the aponeurotic edge its separation from its surroundshortened round ligaments acting, we will perform ings must be followed by hæmorrhage-but the sep-Alexander's operation as the most likely treatment aration of this is almost bloodless, the aponeuroses when put upon the stretch come to a sudden stop, such cases and have found that a readjustment and and, if pulled harder, break—while this gives an elastic resistance when pulled, and stretches before breaking, when an aponeurotic edge is pulled toward the inguinal canal, and from the pubes it shows its attachment to be at one of the pillars or under tissue, and to have some difficulty in making the them - while this, when thus pulled, shows its attachment to be out upon the pubic bone near My incision, as you see, is only about an inch long the spine I am therefore sure that I have the ligament, although it is so small and has so spread We are now upon the deep layer of itself before reaching the pubic bone that but little Introducing my finger deep into the We canal I boldly separate the ligament as far as the inare told that when the inguinal ring is opened we ternal ring, and have the satisfaction of seeing it pull out slightly, become a little larger and easily recog-But I cannot bring out the peritoneal sheath as in the other case, and must separate very slowly with my finger in the canal It now runs, as you see, but not so well as the other, and is about

The mistake that has often been made in such layer of fat by a free stroke, and come upon a coarse cases as this is that the ligament has been gradually fibred fascia that shows no trace of an inguinal ring stretched out instead of drawn out When there is either to the sight or touch, for the firmness of the difficulty it is better to enlarge the opening of the fascia prevents us from feeling any depression over ring, and get into the canal where the ligament the ring, and the relaxed empty condition of the grows larger instead of smaller, as it would if merely bowels takes away that soft fullness that is sometimes stretched You will notice that I have the same pression, and did I not know my landmarks well, I being replaced, I finally succeed in moving the would cut down into it, and perhaps search for an uterine probe by pulling on the ligaments. The

difficulties are over, and I proceed to attach the tion in the vital or visceral organs of the body, and ligaments and complete the operation as before We will leave the pessary for eight or ten months

A little reaction may be expected from the disturbance and stretching of peritoneal indurations and contractions, and possibly a dose of morphia be delphia in 1799, proved to be a weapon of destrucrequired when she recovers from the anæsthetic The pessary is left for the purpose of keeping the in 1814-15, and doubtless many valuable lives were cervix back of the pelvic axis until the round liga ments are healed in their new relationship, and until of the sangrados of that period Dr Gustavus B the sacro uterine ligaments will have time to contract Horner, a successful surgeon of the U S army, and as much as may be If, after two or three months there should be any tendency to a sagging forward the depletory treatment, and after a third venesec of the cervix toward the relaxed pelvic outlet, we tion, died in the vigor of manhood will raise the posterior vaginal wall by denuding and drawing up the tissues along the posterior sulci, somewhat after Freund's perincorrhaphy or Martin's elytrorrhaphia duplex lateralis Thus the fundus will not only be held forward but the cervix upward and backward, and the retroversion be permanently

EPIDEMIC TYPHO-MALARIAL FEVER BY FREDERICK HORNER, M D, OF MARSHALL, FAUQUIER CO, VA

Among the medical notes of the writer's grandfather, the late R H Little, M D, who practiced at Hay Market, Prince William county, Virginia, was found the following letter from his preceptor, Dr Benj Rush

"Sept 5, 1804 —I have only to advise, in your present contest with a powerful and insidious epidemic, to accommodate your remedies to the state of the system Try all modes of treatment There is certainly a right one, and I sincerely wish you Tell your farmers who complain of the plaster-of-paris as the cause of their sickness, that the potato was banished from France by an edict of had made a rapid trip from the United States to the government because a sickly season followed in a few years its cultivation in that country people after a while discovered their mistake, and death recalled the potato from its banishment Our city is unusually healthy, the heavy rains, by washing our though local causes favoring its development were streets and common sewers, have been in the hands supposed to exist on board of heaven of making it so "

Shenandoah, near Winchester, and his notes show that he encountered again in 1827 another epidemic report is quoted to show that naval surgeons admit then termed remittent bilious fever lies, including white and colored persons, and of all ages, were prostrated by the disease, which extended all along the river as far as Harper's Ferry, and to Though Dr Little the near villages and towns served as a surgeon in the U S army, strange his notes fail to record the occurrence of a previous epidemic of fever of widespread prevalence in the New England and Middle States in 1814-15, subsequent to the war with Great Britain, which the physicians considered to be a new form of disease, and The drinking water is obtained from wells and named "Typhus Pneumonia." failed to recognize that it was a low asthenic form receiving the debris from the atmosphere, the soil, of disease, with no visible signs of inflammatory ac- and occasionally putrid animal matter

in this aspect entirely differing from bilious remit-The "lost art" introduced by Dr Rush, tent fever of the Lancet, and claimed by him to have been so effective in the treatment of yellow fever in Philation when physicians were called to treat the fever sacrificed because of the blind adherence to theory physician of Warrenton, Virginia, was submitted to

Incidental to the massing together of large bodies of soldiers during the civil war in this country, and from local and climatic causes, this fever, which was then first properly designated Typho Malarial, again prevailed, and again occurred a repetition in 1886-The "Bulletin of Health" of Tennessee for the month of October, 1887, reported bilious fever to be epidemic in some localities In Lebanon county there were 48 cases, 29 white and 19 colored Out of this number were 6 deaths The reports from seventeen counties of Tennessee show that typho-malarial was the most prominent prevailing disease, and that the year has been one of greater fever prevalence than common all over the country Some of these cases of fever were of a very severe grade, and proved fatal Some lacked the bowel complications and rose spots, and other distinctive features, yielding after three weeks to a treatment of 10dine, carbolic acid and quinine The newspapers also confirmed the statement of the general prevalence of the disease in Missouri, Ohio, Maryland and It occurred, also, on board ship, as well as on land The official report of Surgeon-General Grinnell, U S navy, for 1886, mentions that "the commanding officer of the U S S Quinabaug, who Egypt in nineteen days, arrived, a fever of a violent The type set in, ending in perforation of the bowels and The crew of another vessel of the squadron contracted this fever in the port of Alexandria, At Constantinople, after the vessel had gone into dock, a case was de Dr Little afterward removed to the valley of the veloped that could be traced to a local cause suffi cient to generate the poison of typhoid fever " This Entire fami- the existence of a materies morbi and the infectio contagious character of the disease

A brief record of cases which occurred at Mar shall, Fauquier Co, Virginia, in 1886-87 may interest the reader Marshall has a population of about 200 inhabitants, and is located near the Blue Ridge mountains, in the midst of a section of the state famed for salubrity The houses have been long built, some a century ago, with no cellars, timbers partially rotten, and in contact with the ground Unluckily, they pumps long sunk and rarely cleaned out, the water

drought prevails in midsummer, the water is low and has a somewhat unpleasant taste of salts of magnesia, lime and iron During the winter and spring of 1886-87 the weather was very cold, with violent storms of wind, and the summers were extremely hot, with the thermometer in the 90's for days, night and day distinct hot waves were felt

Case 1 — S G, a farmer, æt 65 In the month of March, after great exposure buying cattle in Chicago, returned home and became ill with symptoms of typhoid fever The drinking water of his family was obtained from a pump located a few feet from a stable and a heap of manure He never rallied, and died comatose during the third week

Case 2 -M T, female, æt 40, lived at Marshall Dwelling house and water supply unsani-

This patient also died

Case 3 —Three females, two adults and a child, in one house, were taken simultaneously ill with fever -type, typho malarial—cerebral and nervous symptoms very violent Within a few yards of the dwelling was heaped up the earth from a well which had been dug and rock quarried with large quantities of powder and dynamite, and left exposed to the ex cessive heat and neavy rains which fell during the month of July One case of acute All recovered dysentery occurred in this family afterward During the month of May, 1887, Dr Copeland stated to the Fellows of the N E Medical Society that he had had in his practice lately several anomalous cases of fever, simulating, he considered, meningitis Shortly afterwards Dr Cochrane, of the Plains, near Marshall, had under treatment three cases of fever in a single family, one very ill The cellar and kitchen of the house was very unclean, and fouled by the débris of decayed vegetables and chicken offal thrown out near the dwelling All recovered. under the treatment by baths and the internal use of antipyrin The disease again invaded Marshall and the vicinity, and there were cases of fever in nearly every house, while the newspapers reported its prevalence all over the state

Case 4—M C, female, æt 40, occupied one of the old houses, with the flooring and timbers near She was very ill for weeks, unable to retain any food, and was nourished by enemata Recovered

Case 5 -P L, male, æt 45, kept a livery stable, and had also a distillery At first was not seriously ill, and worried a great deal His dwelling house was quite near the stables When recovering he was warned to avoid exertion and exposure to the sun He rebelled, however, and when about attending to his affairs, relapsed, became comatose, and died in this condition

Case 6 -H M, female, unmarried, lived in an overcrowded house, with inmates who had no special employment, and were perhaps poorly fed case presented all the worst symptoms of typho-malarıal fever She recovered after a long illness

Case 7 -M D, a colored woman, et 45, was ill

appeared in better health than for many years the month of October following, while undressing for bed, she dropped dead, from mitral disease and paralysis of the heart

Case 8 —G A, female, married, æt 30, has three children and has had three miscarriages, and for sev eral years symptoms of Albuminaria When taken ill with fever there was great body heat, high fever, and wasting of flesh After sponging with cold spring water, the skin would dry as if it were a heated metallic surface The drinking water was obtained from a spring near the stable, and was considered unwholesome At the end of five weeks she was delivered of a dead fœtus at the period of five months' gestation Afterward she made a good re-

Case 9 — B C, a married lady, æt 50, resident of Philadelphia, before coming to a country residence near Marshall to spend the summer She had lately moved into a house, the entire repairs of which had given her great worry, had for several years complained of constant dull pain in the right side, after exposure to malaria while visiting Europe summer she returned to the city for a few days, but again came to the country here, becoming ill with symptoms of incipient typhoid fever She went back to the city The report received of this case was that at the end of six weeks the patient became suddenly ill—great prostration, pallor, cold extremities, and collapse, with swelling, and all the signs of an hepatic abscess After consultation, her physicians, Profs Bartholow and Parvin, at first were inclined to operate, but waited, and finally left the cure to nature After three months' severe illness, the patient is making a good recovery

Case 10 -M W, the son of this lady, at 21, a druggist by profession, became ill with fever, acute pain, tenderness of the abdomen, temperature 104°, pulse 93°, and signs of collapse and peritonitis He had been allowed to visit his mother's chamber, after the free use of disinfectants on his face and hands It may be added that this patient's business was in a large manufactory of drugs and chemicals, and confined him during the entire day to a heated if not impure atmosphere For some weeks he complained of loss of appetite Resident in the house where his mother was ill for weeks with fever, it cannot be a matter of surprise that he contracted the disease, which developed the usual symptoms, with marked Both of these cases are now convalescent, and have been ordered to a health resort in the

That the brief narrative presented of these fever cases at and near Marshall suggests a clew to the etiology would appear to be self-evident dwellings were unsanitary, the drinking water impure, the isolation of patients was neglected, and the season was marked by excessive hot weather, with tne epidemic tendency to typho-malarial disease In Pepper's "System of Medicine," chapter "Typhoid Fever," by I H Hutchinson, M D, the author with the fever for several weeks in the month of Oc- mentions that a single case at Darwin, England, tober Had for several neeks symptoms of heart where the sewerage of a single house was defective disease She made a good recovery, and afterward the excreta of a typhoid fever patient was carelessly thrown into a well from which drinking water was though it may not suffice to prevent the develop obtained, and 1,500 cases occurred in that town In another instance it is proved that the excreta of a patient hving in a town near London gave origin to an epidemic fever affecting 62 families, who used the milk of diseased cows Indeed, the medical profession at present are agreed in the opinion that the stools and clothing of fever patients, and the putrefactive débris of wells and cellars, and impure water or milk, so long as they retain the specific germs, bacilli typhosi will prove sources of infection—the incubative period being usually three weeks. And as a final cause, it may be added that the Bible informs us that the Almighty smites man with fever as a judgment for punishment of sin

Treatment of Typho-Malarial Fever -Only the and by Bedford Brown, M.D., in a late article pub Divine Savior, who healeth all our diseases, has by a touch and word cured any form of fever The office of the physician would appear to be in his treatment of a case, to seek to avert harm to important vital and excretory organs and viscera, where lesions At Marshall and in the vicinity the three methods of treatment now recommended by standard authors were tried, viz first, baths, second, antipyrin, and third, iodine In the treatment of the fever at Marshall, each of these methods were given a fair trial, and with excellent results cold bath, begun with first in the morning, and afterwards repeated three or four times during the 24 hours, acted admirably in adynymic cases attended by high nervous excitement Antipyrin, five grains every three hours, administered internally bath there is marked reduction of temperature, and of the pulse rate, and when the full effects of antipyrin was obtained, profuse perspiration, followed by refreshing sleep and a desire for food, with no unpleasant effects, as sometimes follows the use of quinine

Professor Robert Bartholow was the first to suggest the use of 10dine, which, it is supposed, produces a condition of blood in which micro-organisms, The Staincluding the bacilli typhosi, cannot live tistics of Collective Investigation are as yet needed The distinguished author recto prove this theory ommends the following formula

R Tinct Iodid, f 313 f 31 Acid Carbolic Liq,

Of this, one, two or even three drops is given in a sherry glass full of ice water, after food, and repeated every two or three hours during the day and In addition to this treatment, Hydrarg Mumas, gr v, is prescribed, and repeated on alternate nights until three or four doses have been administered in the course of the first six or eight days Unless there is a high temperature, 104° F, it is stated the fever calls for no special treatment beyond cold sponging The single case treated after cal Congress this method near Marshall recovered

He should use boiled water, cooled by ice, as the vanced wonderfully in the past few years by the process of boiling tends to arrest fermentation, energy of enthusiastic practitioners

ment of bacıllı

Finally, it may be added that for many years prior to the discovery of remedies already enumerated. ol ferebinth, sulphate of quiniæ, and alcoholic stim ulants were esteemed as valuable medicines for the treatment of typho malarial fever In the "Medical and Surgical History of the War of the Rebellion," vol 11, 1t 15 stated by Cullen, Rush, Physic and Chap man that whenever the tongue became smooth, dry and red at the edges, and there was vomiting and diarrhœa, emulsio ol terebinth as a diffusible stim ulant and local alterative acts well, and is an incom parable remedy in low fevers. Antiseptic virtues are attributed to this remedy by the authors cited, lished in The Journal, July 2, 1887

IMPLANTATION OF HUMAN TEETH, THE LIMITS OF ITS SUCCESS

BY I P MILLER, MD, OF BUCKHANNON, WEST VIRGINIA

In reply to a considerable number of inquiries The made in person shortly after the operation, and later by letters, but all too early to warrant me in the ex pression of an opinion as to the good result in my case of an implanted tooth, I take this opportunity of writing particulars rather fully, and I hope satis factorily, for publication in The Journal, believing that this will be of interest to many more than those that have inquired

While attending the late International Medical Congress at Washington Dr Younger, of San Fran cisco, kindly and certainly skilfully did for me the operation of implantation, at the Franklin Building, in the presence of a number of dentists and the ubi The latter had a position in the quitous reporter hard-pressing crowd before all others, and rested his manuscript upon an arm of the chair in which I was The next day, September 10, the Evening Star devoted a column to "Dental Curiosities," from which I quote the following

"To the person who believes that the sphere of the dentist embraces only, or principally the operation commonly known as pulling teeth, but called in den tal vernacular 'extracting,' a visit to the clinical operations at the Franklin Building would have been a There, every morning throughout the revelation week, prominent dentists have performed som e of the most difficult and useful operations known to the pro Patients were treated in a highly scientific manner-filling, building, scraping were done on all This work has, perhaps, attracted more attention than that of any other Section of the Medi

"The human mouth, with its various uses and in cidents, presents to a dentist a world of possibilities regulated, and such should have complete physical Invention runs riot in cavities between roots, and through the gums Dental science has been adten years ago were considered the acme of perfec tion are now abandoned as musty and worthless

"But there is one operation which overshadows all others in its wonderful character and its important This is the 'implantation' process history of the operation is as follows hundred years ago Dr Hunter, of Edinburgh, Scotland, had a peculiar idea, and he followed it out by extracting a live tooth from a human jaw and implanting it in the comb of a rooster grew, much to the delight of the Scot, and, probably, to the disgust of the cock But Dr Hunter's difficulty now lay in the fact that he did not know why it grew, and consequently was unable, in his future operations, to select those peculiar conditions which were necessary for successful work Considerable experimentation has gone on since that time with varying success, but it is only within the past two years that practical results have been obtained W J Younger, of San Francisco, is the pioneer of the practical work in implantation, and has been carrying it on for about two years His first step was to discover that which Dr Hunter did not know, the cause of the growth of the tooth He has found, he says, that the human tooth is provided, like a grain of wheat, with a membranous outer lining, which serves to supply the material with nutriment through This is termed the peri-cementum tooth may be extracted, Dr Younger has discovered, and laid away for years, but if the membrane is not side of the mouth disturbed or injured it may be used with success in implanting

"YESTERDAY'S OPERATION

formed on Dr J P Miller, of Buckhannon, W Va, throughout the dental establishments of the city until | subject, and that no better result could be had place in Dr Miller's gum had yawned for nearly four an apple years, and the missing tooth was described as the right of the central tooth pared by removing with dental burrs all of the pulp, gum was cut open by two upward incisions, making day accident a 'flap' None of the flesh was removed The denforming a cavity there, working away until the hole of the meaning of the inquirer, viz was exactly the size and shape of the root of the This consumed about thirty minutes root, and the line of the edges of the teeth was exact A thread was next tied around the tooth and fastened to its two neighbors, in order to keep it from disturb-The flesh was pressed down into place and site side of the mouth

operation about 200 times, and in only twenty has partially masticated, yes

These failures he attributes to the absence he failed of the 'peri-cementum' In about two weeks the thread may be removed, and in another fortnight the tooth will be solid

"Surgeons recognize this operation as one of the most difficult and practical known to the dental profession, and it is claimed that in certain lines it is destined to revolutionize the science"

Immediately after the completion of what is described above, an impression of the back of the teeth next adjoining to and including the implanted one was taken, and a plate of vulcanized rubber made so as to fit closely all these Holes were drilled through this plate through which silk ligatures were passed, then between and over front of teeth to protect and stay, or "splint" the newly implanted tooth This I was told to leave in place for two weeks, and keep the gums carefully aseptic by frequently washing with a bichloride solution, 1-1,000 This solution I found too strong After weakening to about 1–5,000 I bore it well and it did well The first few days I washed—or rinsed—the gums by taking a mouthful of the solution and running it over the parts, including the newly made flaps and the entire extent of plate-covered gum, using several mouthfuls at a sit-This was done three and four times a day at first, then twice a day until I removed the plate, on October 3 All this time I avoided the mastication of solids, even beef and bread, in the "implanted"

About two months after the implantation A M Jarrett, DDS, of Grafton, W Va, a skilful dentist of twenty years' active and extensive experience, who was with me at the Franklin Building the morning of "The operation which Dr Younger yesterday per- the operation, and himself implants teeth, examined my tooth carefully and pronounced it a perfect suc-A search was made in the morning cess, explaining that I was an exceptionally good a suitable tooth was found, intact in its coating, per- to that time and still later I had never felt that the fectly sound, and of the proper size The vacant tooth would do to "take a bite" with, not even of

During the holiday season I accidentally placed right superior lateral, that is, in plainer language, under the tooth a piece of cold turkey which sprung one of the 'eye teeth' of the upper jaw, just to the it loose, and gave me a soreness and pain in the gum The tooth was first pre- for several days and the tooth feeling about as it did when it had been implanted a week, but decidedly and replacing it with 'hill-stopping,' a preparation of and easily movable. At the time of this writing it is gutta percha Then, when the tooth was ready, the less painful, possibly more solid, than before the holi-

To the inquiry, then, whether I regard implantation tist then bored up into the jaw-bone of his patient, as a success. I must qualify my answer by the extent

1 Does it restore the symmetry of the teeth, gums The and mouth? Yes, my tooth had been extracted prepared tooth was then inserted and so fitted that about four years and the gum was badly shrunken there was perfect contact between the bone and the This did not begin to fill up until about two months after the implantation, since which time it has filled out almost completely, and the tooth is same in size, color and general appearance as its fellow on oppo-

2 Can the tooth be used in mastication? Upon "Dr Younger stated that he had performed this food of medium hareness and when insalivated and

3 Is the tooth as good as the original one whose place it fills? No, and it will be remembered that I had it upon good dental authority that a better result than mine was at two months after the operation cannot be had

Buel hannon, W Va , March 17, 1888

THE NECESSITY FOR INSPECTION OF ANIMALS REQUIRED FOR FOOD

Read in the Section on State Medicine, at the Thirty Lighth Annual Meeting of the American Medical Association, June, 1887

BY CARL II HORSCH, MD, OF DOVER, H. R.

Among the number of persons who have made efforts to prevent the eating of diseased animal food, Moses was the first well known The commands in the Talmud are

"The animal shall be killed with a sharp knife and three cuts If the knife has a jagged edge, or the animal breaks a leg when falling at the time of butchering, the meat is condemed

"To eat no meat from a diseased animal,

"From an animal that has died suffering with tympanites,

"Animals which have Jaw worm,

"Lameness from any cause,

"No meat from calves under eight days old,

"From sheep suffering with tetter,

"Diseases of the lungs, abnormal formations, more lobes on one side than the other (on the right 3, 5, 7, on the left 4, 6, 8,) adhesions, indurations, patches, water-blisters, matter in the vessels, if the lungs are flabby, dry, black, yellow, whitish, fleshy, or coagulations of dark, stringy blood are found in the vessels

"No suppuration, or other diseases of the liver,

spleen, or kidneys

"No sharp things in the stomach, which perforated

the lining of the walls, and have pus on them

"Meat from healthy animals, and where the large vessels have been cut out is called Kausher"

Regarding eating pork and no fish without scales, this was most likely a dietetic regimen for the condition of the Israelites in tropical regions, and against prevailing diseases such as leprosy It would be well if the rational parts of these commands were obeyed

by all nations

Dr Most says "Only healthy animals should be butchered and their meat used for food The signs of health are The animal moves around and appears lively, by applying gentle pressure on the back it ing turkey to my house While preparing it for cook does not bend the ears or tail, the eyes look clear ing my wife found a very large liver, with white patches and bright, the body is well formed and nourished, rumination of the cud is carried on well, no saliva flowing from the mouth, no blisters or pustules on the mucous membrane, breath is normal no cough, groaning or gasping, the skin is not tightly grown to the body, is free from pustules, scurf, or scales, temperature normal, hair glossy After skinning the animal we should find no boils, tumors, pustules nor black spots, the meat should be firm and has the characteristic fresh smell

"Meat is not fit to eat from too old, too young, or from sick animals Such meat is hard, tough, or soft, pale, watery or greasy, and the fat is soft, green or yellow On opening the chest of healthy animals there is no putrid, bad-smelling exudations, no white patches or ulcers, no difference in color, and no dis ease in the surroundings of the lungs In the stom ach and bowels we find no red spots, soft, gray, black places, no dry, dark looking remains of food

"The best meat comes from healthy animals of middle age The appropriate age to fatten oxen is from 5 to 8 years old Calves should be at least 3 or 4 weeks old, dropped the umbilical cord, and have lost the milk teeth Veal and mutton should be kept from two to four days, beef and pork from four to eight, venison from four to ten, and fowls from two to four days Fish should be cooked soon after they are killed

"The meat of animals which have been driven fast before slaughtering is darker and heavier, contains more blood and decomposes sooner The meat of animals killed by lightning is not fit for food butchers inflate mutton to make it look plump, but such meat may contain the fetid breath of some person "

Dr Most cites the following cases

A man contracted a malignant fever and died, after salting meat from an ox which had been sick with murrain (Vich-seuche) A family died after eating the meat of a hog which had been sick with angina (Braune) In Marburg, Stiermark, several persons died of hydrophobia, who had been eating meat from cattle which had been bitten by a mad

dog 1

In 1869 I was called to see a patient in Dover, NH The gentleman was 70 years old, a man of regular habits, and had been the most of his life healthy and strong, until March, 1869, when two of the lymphatic glands on the neck and several of the inguinal glands became enlarged After examination and deduction of other diseases I diagnosed scrofulosis tient was a reliable, intelligent observer, and stated that he never before in his life had any signs of that disease and that there had been no case of scrofulosis I afterwards on either his father's or mother's side ascertained that the butcher of whom my friend bought his meat had slaughtered and sold the meat of an ox which had a large swelling near one of his ears, the person who saw the animal called it "a wolf" This was a case in which I could find no other cause than diseased meat

Two years ago a farmer brought a fat, good look of the size of a cent throughout the tissue On further examination I found fatty degeneration of the liver, and decided that the meat of that fowl would be better relished by the worms

Glanders, hydrophobia, malignant pustules, splenic fever, tuberculosis, trichinæ and other diseases are dangerous and communicable from animals to man

¹Ausführliche Encyklopiidia der gesammten Sizatsarzneikunde von George Friedrich Most Doctor der Philosophie, Medicin, Chiruf gie und Geburtshülfe, etc etc

The bare thought that we are liable to eat the meat of diseased animals causes the strongest aversion and there is certainly danger of contracting diseases to an uncommon extent Being naturally plethoric, thereby

Dr D S Salmon, Chief of the Bureau of Animal Industry, in answer to a letter from Mr J W Bartlett,

Dover, N H, wrote

Washington, D. C., Feb. 12, 1887. In reply to your communication of the 9th inst., I would state that so far as I know there is no systematic and complete inspection of the cattle killed for beef in any State of the Union Many states have beef inspectors, but as a rule they do not in spect all the beef, and in most cases do not see the animal before it is slaughtered or the internal organs when they are removed. They simply look at the beef after the carcass is dressed. Such an inspection is not sufficient to discover all cases of disease for which carcasses should be condemned.

Very respectfully, (Signed), D E Salmon, Chief of Bureau

In an interview with Dr S H Durgin, of the city Board of Health, Boston, Mass, Mr Bartlett ascertained that the city has had an inspection of cattle and meat three years "All the cattle are inspected two or three days before the slaughtering, and the Inspector sees the animals killed If he suspects any disease he inspects the heart, lungs, liver, etc, but does not make a general practice thereof In case the animal shows evident signs of disease before killing, it is slaughtered in the rendering-house away from all healthy animals All disputed cases are referred to the city Board of Health, whose decision is final

Dr Durgin stated that a large amount of tuberculosis in cattle, especially in cows, has been found "

In order to provide a better safeguard against the use and sale of diseased meat, every animal should she was taken with convulsions, which terming the inspected by competent persons before slaughtering, and the internal organs thoroughly examined afterward.

Labor commenced in about thirty days from the safe was taken with convulsions, which terming very pleasantly in every particular to both mo and child in about two hours from its beginning afterward.

Considering the case from first to last, and e

The members of the American Medical Association, Medical Societies, National Board of Heath, American Public Health Association, State and local Boards of Health, every well meaning medical practitioner and citizen ought to see the importance of such a sanitary measure, and make an effort to impress it on the minds of their Representatives to Congress, State Legislatures, County, City and Town officers, that it is for their own safety and for that of over 51,000,000 of inhabitants, and thousands of persons travelling in this country, to pass laws and make appropriations for such protection, and to give the able members of 85,671 physicians, and of the veterinary surgeons a chance to carry out that very much needed part of State Medicine

A CASE OF ECLAMPSIA, WITH ALBUMINURIA, TREATMENT

BY J H BENNETT, M D,

Mrs H, et 35, multipara, was taken with convulsions at end of eighth month of pregnancy At 4 o'clock in the morning of September 28 her husband was aroused from sleep by the convulsive action and labored breathing of his wife I was called immedi-

ately and found patient in a comatose state, face and hands and, in fact, the whole body, cedematous to an uncommon extent Being naturally plethoric, 16 ounces of blood were taken from the arm, followed by 10 grs of calomel combined with 1/4 gr of elaterium This procedure and treatment had a very happy effect in controlling the alarming symptoms Elaterium was continued in 1/5 gr doses administered every three hours, with 60 grs of cream of tartar, until thorough watery stools were secured, which reduced the cedematous condition almost entirely

Believing that urea decomposing in the blood causes the phenomena of eclampsia, benzoic acid was administered (after the thorough watery evacuations were brought about), in 8-gr doses every three hours until the patient became conscious, after which the same treatment was continued, with the addition

of wine of colchicum and guaiacum

As soon as the patient was able to do so, the knee and chest position was adopted and maintained at times when her strength would allow of its use, thereby relieving in a mechanical way the pressure caused by the weight of the gravid uterus upon the renal circulation. The urine was frequently tested for albumin, and for the first few days the quantity was enormous, the test-tube showing that two-thirds to three-fourths of its contents was albuminous on reaching the boiling point.

The bowels were kept well open with occasional doses of cream of tartar and elaterium, with a view of reducing the work of the kidneys. Her diet during this time was a generous and nourishing one Labor commenced in about thirty days from the time she was taken with convulsions, which terminated very pleasantly in every particular to both mother and child in about two hours from its beginning

Considering the case from first to last, and especially the unfavorable circumstance of not being able to see my patient until taken with convulsions, and the happy results of treatment adopted, and finally the short and easy labor, leaving mother and child in excellent condition, impressed me as being worthy of more than ordinary consideration. The only addition to the treatment mentioned was an occasional dose of bromide of potash and hydrate of chloral to secure rest at night.

After an experience of nearly forty years in the practice of medicine, and in the successful treatment of puerperal convulsions when this method was followed, varying, of course, according to condition of patient and indications observed, leads me to firmly believe in its efficacy and importance

There are five important indications to meet, as a general rule First, to relieve the congested brain and venous system by bloodletting, second, to relieve the cedematous condition usually present, by administering drastic cathartics, third, to neutralize the carbonate of ammonia present in the blood by use of benzoic acid, fourth, to eliminate from the system urea, by the use of colchicum and guaiacum, thereby preventing its decomposition, fifth, knee and chest position, where it can be done, to relieve in a mechanical way the renal circulation

Wauseon, Ohio

MEDICAL PROGRESS.

BOUNGIT ON THE PTOMAINFS -DR LOUIS BOUR-GFT, in his thesis on the ptomaines (abridged in Le Piegrès, No 21, November 20, 1887), writes as fol-

The ptomaines, which form in great abundance during the decomposition of animal matter, belong, according to Gautier, to the series of the pyrides and They represent oily, very viscid, colhy dropyrides orless, highly alkaline liquids, and form, when saturated in equal proportion with strong acids, crystalizable, easily disintegrating salts They possess a very penetrating odor, and readily oxidize in the air

Para oline, C, H,, N, 1 is obtained from the putrefying flesh of the mackerel and the horse. It is an only base, of amber color, and smells like hawthorne, it is but little soluble in water, but very much so in alcohol, ether and chloroform Its boiling point is at 188° C (370 2° F)

Hydrocollidine, C,H,,N, an oily liquid, produced

by the putrefaction of meat

Colledine, C, H, N, is one of the most abundant bases, has a strong smell of syringa, and is extracted by chloroform According to Nencki, this base is identical with the collidine, first discovered by him Guareschi and Mosso, following the method of Gauthier, repeatedly found a base of the formula C, H, N Brieger asserts that ptomaines only form during the first stage of putrefaction, and that afterwards they But the fact that it has been possible to extract them from a body eighteen years after death seems to invalidate this opinion Brieger has investigated and isolated the following ptomaines

Peptatorine is obtained from fibrine peptonized by the gastric juice, without decomposition having taken place It is a very permanent substance, and gives with strong reagents the same reactions as the vege-It dissolves in amylic alcohol, and table alkaloids very readily in water, but is insoluble in ether, ben-Millon's reagent (nitrate of zine and chloroform mercury) forms with this base a white precipitate which, by boiling, turns into deep red This base is

extremely poisonous

Neuridine, C, H, N, is a diamine forming long needles like urea Chlorohydrate of neuridine is very soluble in water, but, when pure, insoluble in absolute alcohol, ether and chloroform It is the It is found in most frequent base in animal tissues rotten cheese and in decomposing gelatine, which is very rich in this base Neuridine occurs also in the It is most abundant on the fifth fresh human brain and sixth days, and disappears after the eighth day It forms precipitates with several strong reagents Its picrate is almost insoluble

Neuridine is perfectly innocuous, and is only poisonous as long as it is alloyed with impurities of putri-

The putrefactive neurine is Neurine, C.H., NO extracted from the lees after the elimination of the

neuridine It is excessively poisonous, and resem bles muscarine in its effects It appears in the form of very deliquescent needles, and is an oxyhydrate of trimethyl-vinyl-ammonia, a very soluble base It is obtained by boiling cerebral matter (lecithine, pro tagon) with baryta-water, and derives itself from cho line (bilineurine or sincoline), C6H15NO2, by losing one molecule of water The choline is found in the brain and in the yolk of eggs, in combination with phosphoro-glycerylic acid and can also be obtained from trimethyl-amine and from oxy-ethyl in aqueous solution It is an oxyhydrate of trimethyl-oxyethyl ammonia By treating this choline with hydro iodic acid and oxide of silver, one molecule of water is abstracted, and a neurine is produced which possesses the same properties as the neurine extracted from putrefying meat

Animal ethylene diamine, which is extracted from decomposing codfish, is highly poisonous There is, besides these, in the lees a substance of the same physiological properties as muscarine, and another which Brieger calls gadamine, but which does not

seem to be toxic

The cadaverine, C, H16N2, appears already on the third day, rapidly increases, and abounds proportional to the duration of the putrefaction the following reactions with iodized iodide of potas sium and with bi-iodide of bismuth and potassium, a brown precipitate, with picnic acid yellow needles, with ferrocyanide of potassium and perchloride of iron a blue color It is a thick transparent fluid, which greedily absorbs the carbonic acid of the air, forming in conjunction with it crystals It likewise forms with strong acids beautiful crystals, which are soluble in water and absolute alcohol Its chlorohy drate is very hygroscopic

Putrescine, C, H, N, (bimethyl of ethylene dia mine), is not found in perceptible quantity before the eleventh day of putrefaction It is a clear liquid of sperma-like odor, boils at a temperature of 135° (255° F), and distils without disintegration in It forms with acids presence of caustic potash beautiful crystalline salts, which are not affected by It is very soluble in water exposure to the air

Saprine, C, H, N, is a centesimal compound analo gous to the former, from which it only differs by some chemical and physiological properties of its salts

The last three compounds do not possess any ap

preciable toxic action

The mydaleine forms as early as on the seventh day of putrefaction, but no sufficient quantities for exam mation of its properties can be extracted before the The definite formula of this base has fourth week not yet been discovered, owing to the difficulty of The investigation of obtaining it in pure condition its salts, nevertheless, shows that it is a diamine pto maine, much resembling the preceding Like these, it possesses a great reducing power, and gives with salts of iron and ferrocyanide of potassium anim mediate and very copious precipitate of Berlin-blue color

It produces increase of temperature and of the secretions, especially of the intestinal discharges It dilates the pupils, respiration and circulation be

¹ Brieger refuses to admit the correctness of Gautier's formulæ for parvoline and hydrocollidine. He even maintains that their existence is only due to the analytical method of the chemist.

was not too large, the functions gradually and slowly of the anterior and posterior extremities (in animals) Death is ushered in by a rapid fall of takes place the temperature, and the heart stops during diastole proves fatal to cats

Poehl found in damaged flour, containing ergot of rye, a toxic base, to which he ascribes the convulsive and gangrenous symptoms which characterize poison-

ing by this fungus

the medium in which they develop, different pto-The bacilli which permeate horse-meat produce neurine, those in the flesh of fish, animal muscarine or ethylene diamine

Nencki has demonstrated that the presence of free oxygen considerably assists the process of putrefaction

The various stages of cadaveric putrefaction are marked by the formation of different basic com-Thus, eg, the choline disappears, to be replaced by trimethyl-amine In one of Brieger's experiments it required seven days of putrefaction before the disappearance of the choline was completed, whilst the neuridine could be discovered until the fourteenth day, after which no trace of it was left The formation of an extremely poisonous base is coincident with the disappearance of choline, which seems to confirm the theory that neurine is a derivative of choline -London Medical Recorder, January 20, 1888

PROGNOSIS AND TREATMENT OF CANCER OF THE LARYNY -DR DAVID NEWMAN, of Glasgow, at the close of an article in which seven cases are reported,

Malignant disease of the larynx, if unchecked by operation, is always rapidly fatal, but the course it follows depends chiefly upon two circumstances the site of the primary growth, and 2, its histological The most rapidly fatal cases are those of extrinsic soft carcinomata, the most favorable are intrinsic sarcomata, while intrinsic hard carcinomata may be said to occupy an intermediate position The individual characters of the neoplasm must also

In extrinsic cancer the disease is incurable, the growth spreads rapidly, the lymphatic glands become involved at an early date, and the patient is liable to die either from suffocation, from asthema, from hemorrhage, from sudden collapse or from pyemia, or the fatal termination may be induced by perforation of the œsophagus, by the formation of abscesses, or by pulmonary disease If tracheotomy has been performed at the proper time, life may be prolonged, and suffering for the time be mitigated, but more heroic surgical interference in cases of extrinsic carcinomata offers little or no hope of success Although the prognosis is very unfavorable in all cases of cancer, it is much less so in intrinsic than in extrinsic

come accelerated, after which, provided that the dose volved, the hope of rescuing the patient from impending death is considerable If, however, the disease become normal again, in the contrary case paresis has spread beyond the limits of the laryngeal cavity, or if the glands have become affected, then a tumor which at first may have been intrinsic becomes quite as hopeless, as far as operative interference is con-An injection of 0 005 of a gram $(\frac{1}{12})$ of a grain cerned, as if the growth had been extrinsic from the beginning Total or partial laryngectomy is only to be thought of where the disease is intrinsic, and if the operation is to be performed, it should be done as soon as the diagnosis of cancer has been estab-I am firmly of opinion that cancer is prima-The germs of putrefaction produce, according to rily a local disease, and so long as the system of lymphatics has not been involved in the new formation, I think it is quite possible that the patient may be rescued from death by the early performance of a radical operation

When surgeons make up their minds to operate upon cancer of the larynx at the earliest possible stage of the disease, the statistics of laryngectomies will be greatly improved, and there will be some hope of curing the patient But so long as members of the profession encourage the belief that cancer is a constitutional disease, their patients will seek to hide the fact of the existence of a tumor, in the fear that it may be pronounced to be "cancer" On the other hand, the fault is not always with the patient, it is not uncommon for the family medical attendant to postpone a consultation till he has satisfied himself of the nature of the disease, when this has been done the growth is often so far advanced as practically to place the patient beyond cure I have frequently had painful experience of the evil effects of delay both in hospital and private practice, and I here desire to insist upon the importance of medical men prevailing upon patients who may suffer from intrinsic carcinoma to submit to operation as early My experience in the treatment of canas possible cer has been almost limited to the larynx, mouth, and nose, where you see the disease at an early stage, and the diagnosis is comparatively easy ynx the growth usually exists within the cavity for a considerable time before secondary manifestations show themselves But while this is so it is no reason for delay-quite the contrary If laryngectomies are justifiable, it is only on the belief that cancer is primarily a local disease, which may be eradicated if the operation be performed at a sufficiently early

Laryngectomy as an operation for cancer is still on its trial, and the question now sub judice isshould partial or total laryngectomy be undertaken as soon as the diagnosis has been established, or should simple tracheotomy be performed at a time when the growth has so increased as to cause dangerous dyspnœa? In order that a correct opinion may be formed it is the duty of all surgeons to fully record their experience I have, therefore, brought these cases under your notice, and I hope at a future date to publish a few others which have occurred in private practice

It is, I think, admitted by all that the only cases When the tumor is small in size, and none suitable for extirpation are those in which the disease of the tissues external to the larynx have become in is intrinsic, in other cases life may be considerably prolonged by trachcotomy, which should be performed as low down as possible, in order that the tube may not be obstructed or displaced by the in crease of the growth

Without referring to statistics of laryngectomies in detail, I feel justified in saying that, until within the last few years, sufficient care has not been given to the selection of suitable cases for operation results of most recent experience tend to show that ferer from migraine for the last six years Hypermea careful selection of subjects for the operation greatly reduces the immediate mortality, and delays the extension of the disease, but while this is so, if tacks have entirely ceased time is lost by want of decision, recurrence must be looked for sooner or later

Partial laryngectomy is indicated, and in late years has been performed frequently for unilateral intralaryngeal cancer It is a less serious operation than total excision, recurrence is not more rapid or more frequent Again, another advantage which is claimed for unilateral lary ngectomy is, that the voice is almost perfectly retuned without the use of a tracheal canula, and deglutition also may be completely preserved -Glasgow Medical Journal, February, 1888

IMPAIRED VISION AS AN EXCITING CAUSE OF MI-GRAINS -MR PERCY JAKINS SAYS

For some time past my attention has been directed to the treatment of migraine by correcting any defect of vision which may exist by suitable lenses Most writers on the subject advise medicinal and dieting Dr Liveing, in his work on "Megrim treatment and Allied Disorders," has advanced the hypothesis that "the paroxysms of migraine are due to nerve storms traversing more or less of the sensory tract from the optic thalami to the ganglia of the vagus, or else radiating in the same tract from a focus in the neighborhood of the quadrigeminal bodies "

The first case that came under my observation was in a married lady, at 34, who had suffered from periodical attacks of migraine every ten days for the last She had taken all kinds of medicine, four years which gave but temporary relief On testing her vision I found there was + 1 50 D of hypermetro-The patient was persuaded to wear corresponding glasses, much against her will, for a month the end of the time, when I again saw her, she said there had been no return of the migraine, and she "felt a different woman" I saw this patient a third time at the end of eighteen months and found that

she continued free from her complaint The second case was that of a woman of 37 years who had suffered from attacks of migraine for the last three years, coming on every sixteen days examining her eyes I found hypermetropia which I was able to correct by + 1 25 D glasses tacks of migraine in this case have entirely ceased

The third case, a woman of 45 years, had been subject to attacks of migraine every fourteen days for seven or eight years, and had tried all kinds of I discovered that she was treatment without benefit suffering from hypermetropia to the extent of + 1 D The fourth case occurred in one of the nurses, æt | 10bservations on Prognosis | By P H Pye Smith, M D, Guy's | Hospital Reports, vol xliv, p 59 The patient wore the proper lenses and has never been troubled with her attacks of migraine since

36, at the Central London Throat and Ear Hospital This woman was a martyr to migraine, having two attacks a week, which made her life a perfect misery On examination I found hypermetropia to the extent For the last six months, during which of + 1 50 D time she has been wearing the lenses, she has not had a single attack of her complaint

The fifth case, a man of 42 years, has been a suf tropia was discovered which was corrected by +2 Since he has been wearing these lenses the at

The sixth case occurred in a child of 10 years, who had complained of symptoms of migraine for the last three years On testing his vision I discovered myopia, which was corrected by - 2 25 D There has been no return of the attacks since he began to wear the proper glasses

From the above cases one feels justified in concluding that in all cases of migraine the sight should be carefully tested and suitable lenses ordered These cases have an additional value in the fact that no medicine was prescribed, and no alteration in diet ordered -The Practitioner, March, 1888

Pye Smith on Prognosis 1-Dr Pye-Smith sums up the conclusions arrived at in his paper in the Epidemic diseases following prognostic aphorisms Acute diseases, are most fatal when first introduced following upon chronic, are the most dangerous A degree of pyremia, which is of slight importance in a child, is grave in an adult, and imminently perilous

Typhus fever is most dangerous to persons who have passed their 60th or 50th year, less so to in fants and those between 30 and 55, and least dangerous to children about 5 and to young adults

Small-pox in these particulars closely resembles Whooping cough is dangerous during in typhus fancy, and benign after 5 years of age fever seldom takes on a malignant form when it at-Acute lobar pneumonia has usually a tacks adults favorable issue in youth, and is usually fatal in ad In young adults pneumonia is rarely vanced years fatal unless the patient has disease of the kidneys or of the heart, or is of intemperate habits monia is also a dangerous complication of fevers or Acute lobar pneumonia, when acute rheumatism not fatal, leaves the lung uninjured after recovery, and the patient in good health. It is seldom or never followed by phthisis even when it attacks the apex Primary acute pleurisy is not fatal, unless it is accompanied by pericarditis Pleurisy, if under treatment it ends in death, is secondary to tubercle or to cancer, or to disease of the kidneys Œdema of the larynx is very seldom dangerous, cedema of the lungs is usually so Acute bronchitis is a frequent cause of death in young children and old Fatal bronchitis, in persons between 10 and 60 years of age is either capillary or sec-Phthisis is most perniciondary to tubercle Consumptive patients, ous when it is hereditary

whose appetite and nutrition are good Hæmopty sis, even when copious, is not always of ill omen

the stomach to be immediately fatal, except it pro-Chronic valvular disease of ceed from aneurism the heart, when it complicates phthisis, does not aggravate the latter—rather it checks its progress mitral lesions, in regurgitant than in obstructive kin dilatation of the mitral orifice In apoplectic atgravescent, is commonly fatal tacks, the ultimate prognosis depends chiefly upon the degree and continuance of unconsciousness, the immediate prognosis upon the degree in which res piration is afflicted Chronic diseases of the spinal manipulating the uterus -British Medical Journal cord are more likely to end favorably in women than Chorea is only fatal when the patient canin the young than in the old posite is true of stone in the bladder curable in middle life, and of little danger in later Diarrhœa is dangerous only in infants and in persons above 60 years of age —London Medical Recorder, Feb 20, 1888

ERGOT AND ACETIC ACID IN POST-PARTUM HÆM-ORRHACE -MR JOHN A FRANCIS says It must have occurred to everyone with a few years' experience in practical midwifery to have encountered cases of inertia uteri after delivery The labor may have been normally rapid and strong, and the placenta and membranes discharged entire after the usual interval, leaving a firmly contracted uterus, but presently, notwithstanding the continued pressure of the hand, the uterus elongates and acquires a feather-bed feel, and, refusing again to contract, hæmorrhage re sults, or the uterus may have been mert from the first, barely effecting delivery, or requiring instrumental interference, and all this notwithstanding the previous administration of large doses of ergot cases where the uterus does contract firmly at first, I take it to be but a continuation of the routine of labor contraction I should like to insist on the value of a pasty, or of a hectic complexion as a warning, and almost certain forerunner of hæmorrhage

instances I have been equally pleased at the quick ing facts action of vinegar, given after ergot has failed, espe cially when followed by brandy or ether Having ously slowed by strophanthus times, without ergot, I have found little benefit result | been accelerated by atropine

who lose flesh and color and appetite, with but little | Arguing by analogy, I made the following mixture signs of disease in the lungs, are in a worse case R Liq ergotæ, acid acetic concent aa 31, æther than those who have marked local symptoms, but sulph (s g 735) 31v This should be put into a whose appetite and nutrition are good Hæmopty three ounce bottle, well corked, and shaken thoroughly I administer of this mixture three teaspoon-It is rare for hæmorrhage from either the lungs or fuls in a wineglassful of water, and having used it now for a considerable time I am delighted with its efficacy in causing contraction and giving a refreshing sleep after a short interval, with little or no complaint of after-pains I combine this with the good old-Sudden death is more frequent from aortic than from fashioned pincushion pad wrapped round with a nap-I look upon the ordinary binder, with or withdisease of the aortic valves, and in stenosis than in out the two or three napkins usually offered by the Apoplexy, when in- nurse when a pad is asked for, as a delusion and a With the lower edge well below the hips snare (where it ought to be to prevent slipping up), the direct pressure on the uterus is almost nil, and it serves merely to hinder the pressure of the hand in

ACTION OF STROPHANTHUS —Dr A KAZEM BEK, not sleep Malignant tumors are more rapidly fatal of Kasan, reports seven severe cases in which he Cancers in the aged used tincture of strophanthus—the tincture being are exceedingly slow in their process, and may even made of 1 part of strophanthus seed to ten parts of in rare cases atrophy Stone in the kidney may alcohol—in doses of gtt 5 every three hours, four frequently be cured without operation. The op-Diabetes is after that The cases treated were chronic myorapidly fatal when it occurs in young men, more carditis, with consecutive dilatation of the heart, and with chalky deposits in the aortic valves and walls, two cases of mitral stenosis, regurgitation, alone or complicated with parenchymatous nephritis, two cases of bronchial asthma with emphysema, aortic stenosis with regurgitation, and cardiac neurosis in a woman with hystero-epilepsy failure was met with in one case only, that of a woman, æt 37, who had rheumatic mitral disease and chronic nephritis, and in this case it was far better than succinate of caffeine and sodium, digitalis with valerian, grindelia robusta, or convallaria, with which the case had been previously treated In the other six cases the drug caused marked improvement, usually in a short time The dyspnœa was arrested, the paroxysms of bronchial or cardiac asthma, and the œdema gradually disappeared, cardiac action became slower and more regular, the pulse stronger and fuller, and the daily amount of urine was markedly increased The patients slept well when they were taking the drug, and this Kazem-Bek thinks was due partly to an improvement of the general condition, and partly also to a direct cereand the uterus finding no opposition and nothing to bral sedative action of strophanthus, since he obexpel, relaxes instead of passing into a state of tonic served that dogs became drowsy after intravenous injections of the drug (tincture) From experiments made on frogs, turtles and dogs, with a view that an accelerated pulse, be it strong or weak, is an of determining whether strophanthus acts solely on the muscular tissue or not, Kazem-Bek concludes The liquid extract of ergot is very unreliable in that it acts both on the heart-muscle itself and on these cases, and I have been grieviously disappointed the cardiac ganglia and the peripheral ends of the with preparations of ergot and ammonia in several vagi, a conclusion that is supported by the follow-1 Atropine causes marked acceleration of the cardiac contractions that have been previ-2 Strophanthus experimentally given a wineglassful of vinegar several does not slow cardiac contractions when they have Strophanthus, he

finds, also, increases blood-pressure, but the increase of the cuboid bone, all the external cuneiform, seems to be independent of the cardiac contractions At any rate the arterial tension continues to rise, but the number of beats is not affected - Pratch, Nos 10 and 11, 1887

UNITED FRACTURE OF TOOTH-FANCS -DR WII-HAMSON, the President of the Odonto Chirurgical Society of Scotland, exhibited recently an interesting case of fracture of the root of a central meisor, which hore evidence of having been united There was a history of a blow in childhood, from which the right incisor received so much injury that its pulp died, as shown by its discolored appearance both teeth had done good service until the patient ing the sphineters untouched reached the age of 45, when the left central became so loose that it was removed with the fingers part of the fang, however, was lest behind, but gers, which can readily be introduced, and its fascial being loose, was easily extracted it was found that the two fragments fitted accurately It is cut through well above the disease limits, its when placed in apposition, except when there was anterior attachments gently separated and it is then a little chipping at one edge dentine was at a higher level than that of the cementum, so that the latter formed a sort of collar for There was some thickening in the lower fragment parts of the cementum, and the whole of the pulp in the coronal fragment was calcified, and also the part close to the line of fracture in the other piece Whether there was any cemental tissue coating over the fractured surfaces, as in one of Weld's cases, was uncertain, since the specimen was not subjected Hohl, Tomes, Hyrtl, to microscopical examination and others have altogether collected only about a dozen cases of united fractures in human teeth, and several have been met with in the tusks of animals There seems no physiological reason why these cases should be so rare for new cementum is capable of being formed at any period of life, and it is no uncommon occurrence for the pulp to resume its formative functions long after the cessation of regular Tomes points out that probably the calcification difficulty of diagnosing fracture of the root leads to improper treatment, which does not give nature a Moreover a blow sufficiently violent to cause fracture would generally injure the pulp, and bring about its destruction -Lancet, Feb 25, 1888

TREATMENT OF ADVANCED CONDITIONS OF EQUI-NO-VARUS -At the meeting of the Royal Academy of Medicine in Ireland, on January 20, 1888, MR Swan read a paper on the treatment of advanced conditions of equino-varus, which he maintained to be curable by proper treatment, carried out before the expiration of the first year of life, or before After three or four years walking had commenced had elapsed a modified result might be obtained, but the treatment would be prolonged and difficult When the patient had reached the age of 10 the tarsal bones were thickened, the large adventitious bursa was dense, and included in its base the cuboid and the tarsal end of the fifth metatarsal In such a case ablation of a portion of The portion removed should consist of the anterior three fourths nasal passages are obstructed

except its posterior part, the proximal extremi ties of the third, fourth, and fifth metatarsal bones, and the apex of the wedge would consist of a portion of the middle cuneiform The mobility of the foot would remain almost unimpaired, and as the metatarsal bones had their epiphyses at the distal end, it was probable the development of the foot would not be interfered with He had per formed this operation in thirty-four cases since 1876 -British Medical Journal, Feb 11, 1888

RESECTION OF THE RECTUM -BARDENHEUER de But scribes an operation for removing the rectum, leav The sacral ligaments and the sacrum itself are cut through, the rectum is A brought into the wound by means of the index fin On examination, connections are stripped from it in the same manner The two remaining The fracture of the severed about the sphincter portions are carefully stitched together through the sphincter with which the operation begins is left unsewed Bleeding is stopped by direct The operation pressure with carbolized sponges can be performed in fifteen or, at the most, thirty minutes, and from two to four ligatures are now em ployed, when formerly, in similar operations, from fifty to sixty were necessary - Volkmann's Sammlung klinische Vorträge, No 298

> USES OF BORACIC ACID -It is well known that boracic acid is practically harmless GAUCHER has found it useful in impetigo, and the more so because The scabs should be reit is without color or odor moved by means of poultices, and a solution of bo racic acid in glycerite of starch, 1 10, 18 then applied Gaucher has cured a case of tuberculosis of the skin in the same way, and has given the acid in gr 10 doses in pulmonary tuberculosis, with advantage The urine eliminates the acid readily and rapidly, and, as would be supposed, boracic acid is useful in ternally in cystitis, especially of old men -L'Union Médicale, Jan 31, 1888

> INTESTINAL ANTISEPSIS IN TYPHOID FEVER PARA, in an inaugural Thèse asserts the necessity for the internal use of antiseptics in typhoid septic should be soluble, and should be given in small Para finds the most satisfactory substance to be a mixture of naphthol and salicylate of bismuth, aa gr 8, in powder, half the quantity for children This should be preceded by a calomel purge-gr 4 The stools decrease in number under this treatment, tympanites lessens, sordes disappear, the tongue moistens, and the liver and spleen diminish -Rev Gen de Chn et de Therap, Jan 26, 1888

> OBSTRUCTED NASAL BREATHING, SAYS BARTH, of Berlin, may cause acute or chronic suppurative inflammation of the middle ear, and that middle ear disease cannot be successfully treated while the

Address

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THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All com munications in regard to editorial work should be addressed to the Editor

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ANTISEPTIC AND ANTIPYRETIC TREATMENT OF PHTHISIS

It is not our purpose now to go over the field of the antiseptic and antipyretic treatment of phthisis, but only to notice a paper read before the Bath and Bristol Branch of the British Medical Association. by DR W H SPENCER, of Bristol, in which he gives the records of two cases of phthisis treated by antiseptics and antipyretics, which may be found in the British Medical Journal, of January 28, 1888 And while it may be said that two cases, however complete the records and successful the treatment. can scarcely be admitted as positive proof of the value of any particular mode of treatment, it may be said of the cases recorded by Dr Spencer that they are valuable as showing how and what antiseptics and antipyretics may be used

The two cases were, in brief One case of acute pneumonia of the left lung in a girl 20 years old, the pneumonia passed rapidly into acute tubercular phthisis, which was almost completely repaired by fibroid substitution, and the bacilli, that were abundant during the acute stages, disappeared as recovery progressed, complete recovery was almost assured, when sudden profuse hæmoptysis caused death the case was ten months in duration The second case was one of acute double pneumonia in a young woman of 22 years, which passed into acute tubercular phthisis, there was complete recovery, which was maintained at the end of twelve months, the duration of the case was five months

of the cases, as set forth in the clinical histories may An acute pneumonic condibe recapitulated thus tion of the lower lobes of the lungs at first-both lobes in one case—with concomitant general and special symptoms, showing the disease to be acute croupous pneumonia A transition from the pneumonic condition into an acute tubercular and phthisical condition, begining in the lower lobes invasion of the apices, after the phthisical condition of the bases was well assured Rapid breaking down and formation of vomicæ at both base and Then, the discovery of the tubercle bacillus in the sputa confirmed the diagnosis, and indicated the general and local treatment After this there was repair of the lung tissue by fibroid substitution This repair proceeded simultaneously both at base and apex, and was traced by physical signs distinctly during its progress The profuse hæmoptysis in the first case left no doubt as to the nature of the lesion, and was doubtless caused by the contraction of the lung-tissue, whose building up brought death before healing was completed

It will be of interest to recapitulate the treatment of these cases, applying the term "local treatment" to the means adopted with the special object of influencing the local mischief of the lungs-the anti-In the first case, along with other remedies. a mixture of sulphuric acid, bark, and ether was used pretty continuously throughout the case, cod-liver oil being used at intervals for short periods, as it was not well borne Kairin and quinine were the antipyretics used, the former always reducing the temperature, and quickly, but the fall of temperature was transient, and the resulting depression marked intervals and for a short time quinine was used in large doses, but without any effect on the general progress of the case Throughout the second case a mixture of sulphuric acid and quinine (4 grains), or one of tincture of perchloride of iron and quinine was used, and cod-liver oil, which was well borne, was taken for a considerable time The antipyretics used were salicylic acid and quinine, the former with good results as regards a steady and continuous reduction of temperature, but, though combined with ether, the depressing effects were sometimes bad The quinine given in this case was used in moderate doses, and with unqualified success

The local treatment consisted, in the first place, of iodoform, which was given in 1-grain doses in pill form, 6 grains in 24 hours, in both cases it was given for long periods Attempts were made to increase the dose to 2 grains, but this dose always caused The pathological conditions and clinical features pain and gastric disturbance. In the first case the drug was taken for nine months continuously, with the exception of two weeks The second part of the local treatment consisted in the inhalation of the vapor of the oil of eucalyptus, though this was used only in the first case, and here along with the iodo-It was inhaled by means of a celluloid respirator inhaler, worn continuously except when taking From this there was no nausea or food or sleeping other unpleasant effect

The diet throughout the cases was most liberal As soon as the patients began to feel the effects of the iodoform the appetite improved remarkably, and good food was supplied in liberal quantities, some stout being allowed with the dinner after the return of the appetite

The conclusions drawn by Dr Spencer as regards the special methods of the treatment by iodoform and cucalyptol are

- I He sees no reason to doubt that, when iodoform is given in doses that the stomach will bear well, and given frequently and continuously for long periods, it is absorbed into the circulation, and in the lungs, in whatever form it be, manifests its antiseptic (or antibacillary) action and properties effects of 10doform so administered, in phthisical conditions, are too unequivocal to be gainsaid, however they may be produced
- 2 He sees no reason to doubt that when the vapor of eucalyptol (or other antiseptic vapor that can be tolerated equally well) is inhaled continuously and for long periods, it reaches the residual air in the lungs, and so externally, as it were, bathes the affected tissues or suppurating cavities that may be open to the ingress of the air
- 3 Thus, he thinks, we may have antiseptic remedies, not antagonistic, brought up on two sides to the sites of the inflammatory lung lesion, or the sites of bacillary activity, and these antiseptics, mutually cooperative, do affect for good both the inflammatory process and the bacillary activity, and bring about repair by the mode of organization after suppuration or fibroid substitution
- 4 He thinks it both desirable and correct to treat pyrexia of acute phthisical processes, whether the by the interests involved temperature be high or moderate, by and for itself He thinks that quinine, used as in the second case, promises great things for the future in this respect He thinks that no other special antipyretic than quinine should be used in phthisis, and quinine serves other purposes as well when used as an antipyretic It succeeded three times in sucın moderate doses cession in the second case in controlling the pyrexia -not the temperature merely

In the treatment of these cases it is the object to bring about healing of the damaged lung-tissue, and this by means of fibroid substitution "In order to attain this end, we must secure the same conditions and adopt similar measures, if we can by any means compass it, to those we find successful in dealing with suppurations, ulcerations, and the like lesions, in To secure these conditions parts exposed to view we should adopt measures for supplying adequate nutrition-that is, adequate anabolism of tissue and the storing of energy—in the body generally, and in We should deal the damaged part in particular with pyrevia on its own account, as a general and constitutional state, apart from the local suppuration or ulceration (as by quinine) We should bring the lesion under the influence of antiseptic remedies, both by internal medication (as by iodoform), and by external applications (as by inhalations of euca lyptol), and the application and influence of the antiseptic should be complete, continuous, and pro longed

THE BILL (H R 1526) TO PREVENT THE INTRO DUCTION OF CONTAGIOUS AND INFEC TIOUS DISEASES AND TO ESTAB LISH A BUREAU OF HEALTH

This is the title of a Bill now before the House of Representatives in Washington, and from some par agraphs in both the secular and medical press, we supposed it had been prepared for the purpose of covering the important recommendations made by the committee of the Philadelphia College of Physi cians, several months since, and which we concisely stated in the leading article of this Journal for Feb ruary 4, 1888 Those recommendations directly and strongly urged the establishment of a uniform system of maritime quarantine and health protection for the whole country under the National Government, in stead of the present separate State quarantine ar Without expressing any opinion of our rangements own, we simply placed the several propositions of the committee before the readers of THE JOURNAL, and asked for them the careful attention demanded

After examining the provisions of the Bill now before Congress, however, we find that it covers none of the important recommendations of the com mittee to which we have referred, but simply estab lishes a "Bureau of Health" in the Department of the Interior in addition to the U S Marine Hospital Service, already in the Treasury Department, and provides for the appointment of a Commissioner of Health, some of whose most important duties are the same as are now imposed by existing laws upon the Supervising Surgeon General of the Marine Hospital Service, and still does not go far enough in its provisions to supersede or render unnecessary the latter Service

The adoption of the bill now before Congress would, therefore, bring into existence under these Departments of the Government two distinct medical organizations, one called the Bureau of Health, the other the United States Marine Hospital Service, each under a chief officer appointed by the President of the United States, and both subordinate to a Department Secretary If it were desirable to convert these Departments into laboratories for the special cultivation and perpetuation of intrigues, jealousies, and divided councils, concerning all medical and health matters legitimately belonging to the General Government, no better plan could be devised than the one now before Congress We have no special medical favorites whom we are anxious to keep in office, and no medical friends we desire to nominate for a new office, but we do think that all the medical, sanitary and quarantine interest belonging properly to the General Government, outside of the Army and Navy Departments, should be under one organization with a single intelligent and efficient head Whether that *head* is called a Supervising Surgeon General or a Commissioner of Health, is of no possible importance to the people whose health interests he is to promote

SWINE PLAGUE OR HOG CHOLERA IN FRANCE -In the "weekly abstract of sanitary reports," issued from the office of the Supervising Surgeon General of the U S Marine Hospital service March 16, 1888, is an interesting report of a formidable epidemic among the swine in the vicinity of Marseilles, which on investigation appear to be identical with the disease known in this country as "log cholera" It is estimated that more than 30,000 swine have died of the disease between June, 1887, and February 1, 1888, in the department of Marseilles Though actively contagious, its origin can be traced to no foreign source, as there have been no importations of either swine or pork into the South of France for several years

DIPLOMA ENRAORDINARY -At Albany, N Y, a man calling himself Dr Richard M Dayton, was arrested on the 19th inst on a charge of malpractice in causing the death of Mary Willett He claimed

Cincinnati," for teaching and practicing the "vitapathic" system, including cures for all diseases of The diploma sets forth that the body and soul Dayton has been fully instructed and is amply qual-It authorizes him to legally practice the system anywhere in the treatment of all physical and mental diseases and to lawfully receive compensation therefor, and "in virtue of our religious crganization and second incorporation, we also constitute and ordain him minister of the gospel of life and authorize him to preach and to solemnize marriage according to law, to attend funerals, and to lawfully perform all ministerial offices, and by these presents we do fully constitute him doctor of health and minister of life, this 27th day of November, 1886"

THE PRIZES OFFERED BY THE NEW YORK MEDI-CO-LEGAL SOCIETY, of \$100, \$75, and \$50, for the best, second best, and third best original essay on "any subject within the domain of medical jurisprudence," are by recent action of the Society, extended to June 1, 1888, on or before which time all essays, designed for that purpose, should be in the hands of Clark Bell, 57 Broadway, N Y, President of the Society

DEATH OF DR EDWARD G NEWHALL -Dr E G Newhall, a prominent physician of Galena, Ill, died in that city on March 20 He was born in Galena in 1844, and was graduated from the medical department of H Ivard in 1869. He was Mayor of Galena for two terms, and was for many years a member of the Board of Education

ASSOCIATION ITEMS

PARTIAL PROGRAMME OF THE SECTION OF OBSTETRICS AND DISEASES OF WOMEN

The following papers have been offered to the Section on Obstetrics and Diseases of Women

The Address of the Chairman, "How Gynecology is Taught," by Ely Van de Warker, M D, Syracuse,

"Separation of the Symphysis Pubis in Labor and its Treatment," by R. B Bontecou, M D, Troy, N Y

"A Plea for Early Operative Interference in Cases of obscure Pelvic Pain, and recurrent attacks of Pelvic Inflammation in Women," by Rufus B Hall, M D, Cincinnati, O

"Exploratory Laparotomy," by Henry O Marcy, M D, Boston, Mass

Any other members desirous of contributing papers to be a graduate of the "American Health College, to this Section are requested to send the titles at once

to the Churman, Ely Van de Warker, M D, Syracuse, N Y

PARTIAL PROGRAMMI OF THE SECTION OF STATE MI DICINI

Any members desirous of reading papers before this Section are desired to notify its officers at once

At the coming meeting of the American Medical Association at Cincinnati, Ohio, May 8, 9, 10 and 11, papers are expected before the Section on State Medicine, as follows

"The Malatial Germ," by Prof William Osler,

M D, Philadelphia, Pa

"The Causation of the Essential Fevers," by Prof Victor C Vaughan, M D, Ann Arbor, Mich

"The Internal Origin of Fevers," by J A Larra-

bee, M D, Louisville, Ky

"Atmospheric Temperature and Intermittent Fever," by Henry B Baker, M D Lansing, Mich -By J N McCormack, M D, Bowling Green,

"Report of Committee on Form of Law for Regulation of Practice of Medicine," Perry H Millard,

M D, Chairman

in the title as here given, they will confer a favor by notifying the Secretary of the Section, S T Armstrong, M D, Marine Hospital Service, New York vocal cords City, or the undersigned

HENRY B BAKER, M D,

Chairman of Section on State Medicine, American Medical Association

SOCIETY PROCEEDINGS.

CHICAGO MEDICAL SOCIETY

Stated Meeting, February 20, 1888

THE PRESIDENT, W T BELFIELD, M D, IN THE CHAIR

DR F E WAXHAM exhibited an

IMPROVED LARYNGEAL TUBE

(See Department of New Instruments)

DR F O STOCKTON It seems to me that there are two or three features in these tubes which are radically wrong In the first place, the hinge ex poses a roughened surface on the inner side of the tube which might afford a lodgment to any membrane which may be loosened and worked into the only that, but in this hinged opening there is a glottis has a very important function. The fact that chance for the lodgment of septic matter, so that all it may be removed and a person swallow well is tubes must be very carefully disinfected, and every one does not believe in such thorough antiseptic measures as some of us do

Another point is the action of the epiglottis Those who have read the abstracts of the Internaber the paper by Carmalt Jones, of London, upon the action of the epiglottis in swallowing. While I the action of the epiglottis in swallowing While I they experience from partial paralysis of the de

do not agree entirely with Dr Jones, of London, I believe its ordinary action is the true one. We are taught that it acts like a trap-door, that it closes over the entrance to the larynx I do not believe it has any such action, the muscles attached to it are not sufficient to cause such an action, the base of the tongue does not expand back and downwards suffi ciently to cause such action While it may, to a limited extent, be pressed backward by the base of the tongue, I believe there is another action of the epiglottis than guarding the entrance to the laryny from foods and liquids We have ascertained this We have taken birds and much from experiments animals and removed the epiglottis and found that liquid and food does not enter the larynx when they We have seen it in man, when from ulcer ation the epiglottis is destroyed, they are still able to swallow food and liquids with impunity, so it seems to me the hid on this tube is of very little ben It seems to me that the fault in intubation is that we do not intube deep enough, making the shoulders thinner and introducing them below the false vocal cords so that they rest upon the true vo cal cords, and then the false vocal cords can close If those who are to contribute papers see any error up against themselves and close the entrance to the glottis I think the mistake in intubing is that we have let the tube rest on the false instead of the true

I am much interested in this DR E F INGALS device of Dr Waxham's, it seems to me an excel lent idea, and I fail to see the many objections that I apprehend that the Dr Stockton has mentioned amount of mucous, or false membrane, or septic ma terial, that would catch about that little hinge would be a trifling matter considering the large amount It would seem from the re already in the throat port that this tube has acted favorably in some cases I do not think the administration of liquids is as im portant as is commonly supposed In this disease we like patients to have food, but for the four or five days that they wear this tube I believe it of little consequence whether they take either liquid or solid food, there is no danger of starvation

In the past week I have seen a case of colitis in a child, who was sick three days without taking a particle of food, not even a drop of milk, and I never saw a patient do as well as that child did, with such a disease I think we often make a mistake in attempting to feed our patients so much, thinking we are building them up when we are really retard ing their recovery, because the foods taken are not

digested

I do not fully coincide with Dr Stockton about the action of the epiglottis, I believe that the epi glottis has a very important function The fact that It certainly covers the laryn in ordinary deglutition, and I think that is its function. The elevation of the larynx and pressing backward of the tongue during deglutition is sufficient in the majority of cases to cause the epiglottis to hold accurately over the laryna, though I confess it is not always

pressor muscles reference to seating the tube low down do not seem to me borne out by the experience of those who have had the greatest experience in intubation danger of tubes passing into the trachea I think has been very much underestimated by the profession, dinarily hear nothing about it Not long since I heard of a case which seemed authentic, at the autopsy of which the tube was found in the bronchus I had myself an unfortunate case this winter tube introduced was an ordinary O'Dwyer tube with The child did well and seemed a good sized head to have recovered, when on the fifth day I attempted to extract the tube As I had the tube nearly out the extractor slipped, I tried repeatedly, and the extractor slipped again and again, until finally the tube slipped into the trachea, and I had to do tracheotomy to remove it About two hours afterwards, during the absence of the attending physician, the child died The friends insist that it died from the shock of the operation Any one who has talked with Dr O'Dwyer must think his experiments in this matter have been very thorough, I certainly am willing to accept his conclusions as to the tube and the mode of using it

Dr Moreau R Brown I think the tube shows a great deal of ingenuity on the part of Dr Waxham, and looks like something in the right direction The tubes generally used are by no means perfect, and we are anxious for an improvement This appears to be a great advancement on what we have already seen, and I shall look with interest for further reports from its use I agree with Dr Ingals in his statement that the valve is not apt to catch much septic material, as it is very smooth in all its parts, and so well made there is not much chance

for anything to lodge on it DR WAXHAM, in closing the discussion, said The first speaker raised an objection to the tubes on ac count of the danger from septic poisoning from collection of septic matter around the spring ways my custom, after using a tube, to soak it in 95 per cent carbolic acid, and I am quite positive there would be no danger from sepsis after such a treatment I think there is no danger from accumulation of mucous about the hinge

In regard to deep tubing I have passed through that experience, and I can see no advantage in that method over the high tubage Indeed, during the early history of intubation, for a long time I used tubes with the small heads, so small they would rest below the false vocal cords on the true vocal cords, and yet there was the same difficulty in swallowing Dr O'Dwyer's experience has been the same, he claims that a child will swallow food better with the larger heads than with the smaller ones first used

These instruments were made for me by Mr Truax, and I think the instruments should be made only by the most reliable firms, and should be thoroughly part of the upper jaw, but it was not done inspected by an expert before they are sent out

The gentleman's remarks with I shall suggest that an opening be drilled through the pivot and a wire passed through it instead o around it, and I think there will be still less risk of The impairment of the spring This, together with the gold spring, I think will overcome all difficulties

DR STOCKTON I think Dr Ingals misunderstood it is probable that when this accident occurs we or- me in regard to the head of this tube. I did not mean a smaller head, but thin from above downward, not laterally small

> DISCUSSION ON DR INGALS' EXHIBITION OF INHAL-ERS, ALREADY PUBLISHED IN THE JOURNAL

See Journal of Feb 18, p 213)

Dr Moreau R Brown The tubes are very sat isfactory, I have a set of them in use at my office The Davidson No 25 I have previously used for general work and found it to be a better spray than we had before the introduction of these by Dr In-The objection to most atomizing tubes is the air pressure required to create a spray is so great that, when thrown into the nose, the force will undoubtedly prove a source of irritation and cause a swelling of the turbinated bodies With the exception of their use in atrophic catarrh, I have entirely abandoned the Sass tubes and substituted the Davidson, and find the spray made by the latter desirable in almost all the forms of nasal catarrh, superior to This spray is thrown in with cotton or the brush little force, lightly deposited upon the mucous membrane without creating irritation

DR C S Bacon exhibited a patient with SARCOMA OF THE NOSE

The patient I have to show to night is 21 years of His family history is good, none of his relatives have had tumors of any kind Some time in December, two years ago, he noticed a swelling in the right nostril About a week after he first noticed the tumor in the nose he went to Dr Gunn at the Presbyterian Hospital, and the tumor was removed Shortly after the tumor was removed the nose was swollen on the outside, nothing further was done, however, until the following August (1886), at that time the tumor had grown to about the size of a half walnut and caused some discomfort He again went to Dr Gunn at the Presbyterian Hospital and the tumor was removed by cutting through from the out-No microscopic examination was made of either of these growths The recurrence of the growth was gradual afterwards, and nothing further was done until the spring of 1887 About April, 1887, the patient went to Dr Fenger at the Emergency Hospital At that time the tumor was considerably larger than it was at the time of its last re-By the kindness of Dr Fenger I am able to moval show you photographs of the patient as he appeared when he was under Dr Fenger's care The tumor was removed by Dr Fenger four or five times recurrence was very rapid, in about two weeks it reached its original size. At that time there was some talk about a radical operation, removing a large I the fourth or fifth removal the patient passed from am about to suggest a further change This wire is the hands of Dr Fenger and another surgeon, Dr twisted about a pix of which controls the epiglottis Owens, was called in He made a diagnosis of malignant tumor and said he did not think the patient's the Policlinic Hospital five or six weeks ago by Dr life would be materially prolonged by an operation | Hoechsler and referred to me for operation. The his Three or four weeks after the last removal of the tory was that the man had had removed at vanous tumor, in the latter part of July, the patient came times, from the right nasal cavity, some six or eight under the care of Dr Baxter at the Alexian Brothers' Hospital At that time the tumor was much larger | nary gelatinous polyp or myoma of the nose Within than is shown by the photographs, it covered a large the next three or four days after the last operation for part of the right side of the face, extending from the removal of these polypi, which was last summer, above the eyebrow to below the mouth, closing the the right nostril became suddenly occluded and re right eye and extending to the left, partially closing | mained so up to the time of the operation presently the left eye. It was an angry looking mass had been some bleeding, which had been checked this sudden occlusion, but during the fall, about No by a styptic solution. The growth had not been vember, the patient went East, and while there con cleansed on account of the bleeding, and it was very sulted a physician who discovered and attempted to a serious condition on account of blood and septic but as the hemorrhage produced was so severe he The tumor was removed, causing consid- gave up the operation erable bleeding, the active cautery was applied, and cago with the blood oozing from the tumor Next, also a styptic solution had returned I his time the patient was chloro- produced further hæmorrhage, to remove the tumor formed and the right common carotid artery tied, by the snare When the man was presented at the and the growth again removed the tumor was considerable, it was partly on that of age and of a healthy appearance On looking account, but mainly on account of the hope of in- into the right nostril there was seen a somewhat pale fluencing the growth, that the artery was tied benefit of the ligation was apparent, the recurrence ular and bled very readily on being touched It was was not as rapid as before However, there was a only the surface which was exposed to view that af recurrence, it began to grow shortly after the liga- terwards proved to be irregular, and which irregular tion of the artery, but not as rapidly, and from that ity I attributed due to the operations which had been time the tumor was removed four times at intervals attempted The growth reached perhaps the size shown in the photographs in the course the roof of the nostril inside, and broke up a small of four weeks, not being nearly as rapid in recurrence attachment to the middle turbinated body, the main as before the ligation of the carotid moval was in the latter part of October, and from nose that time to this there has been no recurrence of the around the growth and removed it by the galvano-Two or three weeks after the last operation | cautery the surface had granulated over, and for the last ten there was no further hæmorrhage. The tumor was or twelve weeks there has been no change in the apabout the size of a hen's egg, exceedingly soft, of a with the exception that the cautery was not applied, texture, the lower part or base being harder and more it was simply that of gouging out the tumor, it was dense and firm in texture necessary to remove it as rapidly as possible on ac- growths in the man's nose, either polypoid or sarco count of the bleeding In the course of the operations, the cavity seemed perfectly clear and the tion a part of the septum was removed, almost all of man was able to breathe through it with ease Some the middle turbinated bone and a part of the supe- three or four days after I did a second operation, sent a section of the tumor, but none were saved binated body, which had been the superior attachment because the diagnosis seemed plain enough, and it of the tumor was hardly expected the patient would recover of sarcoma was the same as made at the Emergency across the septum and the floor of the nose on account of the fact that it has now gone about tissues down to the bone and cartilage with the gal four months without any recurrence We all know how hopeless sarcomata of the nose are generally considered, especially cases like this, where the all who wish will have an opportunity of looking at return or indication of it. It is known that these the face as it now appears I shall be interested in sarcomata, when removed repeatedly, will sometimes heaving the opinion of any who have had appeared to the opinion of a point of the opinion of the opinion of a point of the opinion of the opin on the subject as to the probable effect of ligation of great malignancy Whythis is so is impossible to say the artery in diminishing the rapidity of the great the great malignancy. hearing the opinion of any who have had experience the artery in diminishing the rapidity of the growth DR MOREAU R BROWN

polypi which presented the appearance of the ordi I was unable to learn the cause of There to be described The patient had some fever and was in quite remove a growth which filled the right nasal cavity, The man came back to Ch One week later the growth three or four unsuccessful attempts were made, which The bleeding from Policlinic it was marked that he was about 45 years The tumor blocking up the cavity, the surface was irreg

Dr Miller passed his finger between the tumor and The last re- attachment being to the septum and floor of the I was then able to and passed a platinum wire After removing the tumor from the nose The last operation was like the others dark purple color, smooth on the surface and of loose I am sorry that I cannot pre- removing the anterior extremity of the middle tur It the tumor, I should imagine was about I inch in The diagnosis length from front to rear, and the same measurement The case seemed worthy of presenting removed as thoroughly as possible, destroying all the amined with the microscope by Dr Harris and our President, Dr Belfield, who pronounced it a sarco-I have reason to think there has not been any

A case was brought to plar to this, though with one exception not so bad,

perhaps three or four, in which I have found within at Bedford Springs the nasal cavity what seemed to me at first simply a fibrous tumor, but upon microscopic examination the sarcomatous appearance was so marked that the microscopist gave me a very unfavorable prognosis One of the cases I did nothing whatever with, as it had gone too far It was very malignant and the patient only lived a few months, but in two other cases I have removed the growth repeatedly, perhaps five or six times, and eventually the patients disappeared Whether the growths returned or not I do I heard from one of the young men a not know week or two ago and he had gone six or eight months without a recurrence The other had gone three or four months without recurrence when I last heard of In one case, after repeated removals, the growth took on rapid growth which speedily caused the patient's death

BALTIMORE ACADEMY OF MEDICINE

Stated Meeting, February 21, 1888 DR JAMES CAREY THOMAS IN THE CHAIR Dr Thomas F Murdoch reported a case of DOUBLE ANEURISM OF THE ASCENDING AORTA

On February 13, at 8 PM, he was summoned to see Mr B, and found him complaining of nausea, great pain in the epigastric region, very sensitive to pressure, eructating great quantities of wind and his heart beating tumultuously, so that it was impossible to hear the sounds of the heart to determine if there was any disease of the valves The patient informed him that he had dinner at 3 o'clock at a restaurant, consisting of a beefsteak and a potato, and shortly afterwards was seized with nausea, pain in the stomach, and tumultuous action of his heart, which obliged him to go home, but did not send for Dr Murdoch until the hour above named scribed an antispasmodic mixture, and after taking two doses, he left the patient somewhat relieved and ordered a dose of castor oil to be taken in the morn-Would have given him an emetic, but he informed Dr Murdoch that he was never able to Called at 1 AM, the 14th, still suffering, ordered an enema, and at his own suggestion gave him half a tumbler of hunyadi water. The enema brought away some hardened fœces, and, at the same time, he did vomit some fluid, but nothing that he He expressed himself as feeling much better than he had done since he was first taken Remained with him until 4 AM, and left him comfortable, although his heart was acting tumultuously

Called again at 7 30 A M Prescribed

Tr digitalis Morphin sulph Aqua camphora Teaspoonful every two hours.

Of this he took one dose

Dr Salzer had attended Mr B last summer tion of the heart

He agreed with Dr Murdoch that the action of his heart was sympathetic, and informed him that he had frequently examined his heart, and also his urine, and he was certain there was no disease of either heart or kidneys treated him for gastric trouble. After much consideration they determined to give him 20 grs of ipeca in compressed pills, this instead of vomiting him, had the most soothing effect, and he got some sleep. the first he had had After fifteen minutes, repeated the specac and he slept for nearly two hours, waking occasionally Dr 5 left at 11 30, considering him much better Dr Murdoch remained until 12 30, thinking he could leave him for an hour or so, but had not been away more than thirty minutes when the patient expired suddenly

Report of autopsy made on the body of Mr B

by Dr W T Councilman

February 15, 10 AM, twenty hours after death Body of medium size, slightly built Rigor mortis well marked On the right upper arm, about one and one-half inches below the head of the humerus was depressed stellate cicatrix, and on the anterior aspect of the body between the cartilages of the second and third ribs and one-half inch to the right of the sternum was a similar cicatrix lung free from adhesions Its tissue œdematous The right lung firmly united to the chest-wall by old Its tissue cedematous pleural cavity about one ounce of clear serum entire heart was enlarged, both ventricles, especially the left, somewhat dilated The wall of left ventricle slightly thickened The muscular tissue of heart All the valves of the heart were normal The aorta atheromatous in its entire extent aorta just above the aortic valves were two aneurisms, one opening in the sinus of Valsalva behind the right anterior valve, and one behind the posterior The one to the right was the size of a black walnut, its opening into the aorta about three-fourths of an inch in diameter The aneurism opening behind the posterior valve was not larger than a small In the wall of the right auricle there was hazelnut an area about one inch in diameter where the wall was thin, anæmic, and in the middle of this a ragged opening the size of a No 14 catheter which passed directly into the larger aneurism Both aneurisms contained red coagula Liver, kidneys and spleen In the abdominal cavity about 3 per congested cent of clear serum

Dr. T A Ashby said, that through the courtesy of the attending physicians, he had witnessed the autopsy in the case reported by Dr Murdoch had known this gentleman for a number of years, and was as much surprised as were his medical attendants at his sudden death He had never attended the gentleman professionally, and therefore, had never examined his heart, but was aware of the fact that he was a frequent sufferer from attacks of indigestion which gave him much uneasiness and dis-At times he complained to his family of thoracic pains and of dyspnæa after exercise Dr Salzer met Dr Murdoch in consultation at 9 also complained of palpitation and of frequent ac-The valves of the heart were

normal, and there were no physical signs present after the aneurism had broken pointing to cardiac trouble. His medical attendants were therefore correct in assuming that illness was not referable to circulatory changes The cause of sudden death was explained by the rupture of the was hoarseness and stridulous breathing, and the In his judgment the disturbance of pupil was also affected the circulation was primarily induced by the retch- under the use of the iodides, the worst symptoms ing and vomiting, which induced sufficient pressure disappearing, but the patient passed out of his sight, upon the alrady weakened aortic sac as to occasion rupture and sudden death It is probable that rup- autopsy ture was in this wise hastened, but it would in all the case, and had pronounced it an aneurism of the probability have occurred at an early date from mere attenuation, or physical exercise, had not the attack of indigestion occurred Changes in the aorta had evidently been going on for some time, though no means of determining this fact were presented to his medical attendants In the light of present circumstances it was easy enough to construct a theory and establish a chain of evidence which would explain a result, but in dealing with conditions we were guided by facts in view and not by suppositions which only became clear after they are obtained from positive information enough now to account for the presence of a con- He would suddenly fall down and get up again, and dition since it had been discovered by post-mortem evidence, but this information was not possible be-The treatment of the case was rational fore death and not open to criticism Who could have done better? This is a practical question to which each difficult to say whether he did or not Patients with one must give a candid answer

DR JAMES CARFI THOMAS asked if atheroma could be diagnosticated when not far advanced also spoke of venous engorgement which occurred in such cases

DR JOHN R UHLFR thought that if the physics of he could get no knee jerk out of him auscultation were better understood and more thoroughly studied, we might be better able to understand obscure cases He referred to a similar case He was called to see a man in his own practice one morning at nine, and found him with a pain in the chest, and unable to lie down died at 9 P M the same day with a sharp pain at the A diagnosis during life had centre of the sternum The autopsy showed an aneurism not been made which had burst in the mediastinum The aneurism had probably been open for twelve hours, and the blood was leaking out all that time

DR F T MILES said, the history of this case helped to show that it was not necessary for the chambers of the heart to empty themselves to carry The right auricle in this case was on its function probably always distended with blood He recalled the case of a man who had attacks of spasm of the glottis, and whose circulation and breathing were No one had made a diagnosis impeded autopsy showed an aneurism pressing on the trachea, and probably carrying on its effects through the recurrent laryngeal nerve It was not easy to see why such attacks were paroxysmal, and not continuous He thought that when an aneurism once burst, nothing could be more sudden than death

DR WILLIAM B CANFIELD said he thought many for twenty-four or forty-eight hours, or even longer in London

He had reported a case last year in which the symptoms, produced by pressure on the pneumogastric and recurrent laryn geal nerves were well marked In this case there and the diagnosis had never been confirmed by an Several other physicians had also seen The 10dides, and particularly the 10dide of aorta sodium, had been much used of late in these cases He had under observation at present a man who suffered with violent palpitation, cough, contraction of the left pupil, and he suspected an aneurism, but none could be found The man had worked in lead, and had had lead colic The iodides had done him good

DR F T MILES reported a case of LABYRINTHINE VERTIGO

It was easy in a boy 16 years old, who had attacks like epilepsy when asked would say nothing was the matter His eyes would roll The important point was the loss of consciousness The boy said he did not lose consciousness, and his friends said he did It was petit mal often lose their consciousness without knowing it This patient had fallen at times He could walk a straigt line without hesitation or devia tion, but when he stood with closed eyes he went over to the left side It was not locomotor ataxia, He thought He had had it was a case of labyrinthine vertigo otorrhæa and loss of the drum membrane This case was as interesting as some of Mr Gowers He laid much stress on the way in which he fell to the He thought tinnitus aurium was not sufficient The patient to cause it It was much like epilepsy

DR WILLIAM B CANFIELD, in referring to this vertigo and falling to the left with closed eyes, asked Dr Miles if a perfectly healthy individual, with one ear artificially stopped, would be apt to fall over on closing the eyes The sense of hearing has much to do with preserving the equilibrium in total darkness, as any one might notice It would be interesting to know if one totally deaf suffered any less from sea-sickness than others

IDIOSYNCRASY TO IRON

DR THOS E MURDOCH, in treating a child with double lobular pneumonia, had used beef, wine and iron, and noticed that the child put its hand to its head, and on stopping this preparation the child He thought it was not the alcohol, as grew better he had continued that He attributed it to the iron, as the grandmother had always been unable to take It was a remarkable case of heredity

THE VOLCANIC ORIGIN OF EPIDEMICS is the title cases were on record in which the patient had lived of a new book, by Dr John Parkin, recently issued

GYNECOLOGICAL SOCIETY OF CHICAGO

Regular Meeting, Friday, December 16, 1887 THE PRESIDENT, HENRY T BYTORD, M D, IN THE CHAIR

THE PRESIDENT exhibited

A NEW UTERINE ELEVATOR,

and said I have been in the habit, for a long time, of introducing an ordinary straight, hard rubberintrauterine stem into the retroflexed uterus before replacing it, in order to stiffen or straighten it, and to serve as an indicator of the position of the fundus after it has ascended out of reach Last summer a cutler showed me a uterine elevator, invented by Dr Miller, of San Francisco, which consisted of a straight steel stem, fastened upon the end of a thimble, with the end in view of making the stem a continuation of the finger end I was unable to use this one, because in bending my finger so as to push the cervix back in place my knuckle would catch against the posterior vaginal wall or pelvic floor therefore constructed this instrument There are three stems a jointed steel stem, like that upon the end of Emmet's elevator, and two copper ones of different sizes, slightly flexible Any of these may be attached to a shovel-shaped piece in which the finger end hes at right angles to the stem vix may thus be pushed backward or sideways, and the fundus pried forward With the finger thus against the end of the stem, and practically against the cervix, we can calculate the position of the fundus, the amount of resistance to replacement, and avoid all violence and danger

The Secretary read for Dr F W Mercer, Chicago, a

REPORT OF A CASE OF TUMOR OF THE ILEUM, DEATH FROM INTESTINAL HÆMORRHAGE, EXTENSIVE COMPLICATING LESIONS

The following history was communicated to me by Dr Converse, the attending physician

Annie W, single, æt 34 years, was always considered in good health Had menstruated regularly Had menstruated regularly without undue pain till within the past year, when it was observed that the flow was not quite as copious All the other bodily functions had been regularly performed so far as the friends knew Miss W was of cheerful disposition, vivacious, and physically strong, being able to toss her sister's child, weighing about twenty pounds, up at arms length above her head

About one year ago, she consulted a leading physician of this city to whom she complained of a throbbing sensation in the left inguinal region, and also of some slight digestive disorder The doctor informed her that he considered the throbbing due to the presence of gas in the intestine, and prescribed some digestive After this, the patient went along as usual, not making any special complaint, till the tired, rechning upon the bed in her room About ing of fibroid tumors II AM she had a movement of the bowels, consist-

ing almost entirely of blood, but not large in amount Dr C, who examined the stool, concluded it was due to "bleeding piles" Absolute rest was ordered At 12 30 PM, the patient left her bed and entered the bath room, where she fainted while passing another bloody stool She was carried back to bed, where she soon revived Dr C saw her again, and ordered pyrogallic acid and ergot, with brandy at short intervals From this time till 9 P M, she grew very restless, having involuntary discharges of blood which were received upon cloths, making any accurate estimate of quantity impossible At about the last named hour, I was called in consultation, and found the patient tossing from side to side of the bed, groaning, and complaining of pain in the The features looked shrunken and umbilicus pinched, the surface blanched and clammy, the face very cold to the touch, and the pulse barely per-In fact, the patient appeared moribund ceptible from hæmorrhage

An examination of the abdomen was made, and the presence of a tumor, quite symmetrical, of globular form, was discovered in the median line, just above the pubes, an enlarged uterus was suspected as the source of the hæmorrhage, and an examination per vaginam was made, with the result that the os was found to be of pin-point character, cervix elongated, and giving no indications of hæmorrhage

Hot-water bags and bottles were applied to the surface, warm blankets packed about the body, and brandy given subcutaneously with aromatic spirits of ammonium by the mouth Transfusion was thought of, but, the means not being at hand, it was not tried Dr E W Sawyer was called, but little could be done, as the patient was now in articulo

Section, fourteen hours after death, Dr E D Converse, Dr E W Sawyer, Dr W Barry, Dr Frank Andrews, and your reporter being present The section was made by Dr Frank Andrews The hody appeared well nourished, the rigor well marked Upon reflecting the abdominal parietes, the intestines appeared rather pale, and not unduly dis-At the lower hypogastrium a tumor was found resting in the median line It was globular, ten centimetres in diameter, and weighed 454 grams, was moderately firm in consistence, and attached by a slender pedicle to the small intestine (ileum), about fifteen inches above the cæcum Upon section of the ileum, an oval opening was discovered upon its mucous surface, about four millimetres by This opening corresponded to three millimetres the attached pedicle, and communicated directly with an artery of about four millimetre calibre was undoubtedly from this that the fatal hæmorrhage There were old and extensive adhesions occurred of the intestines to the pentoneum Both the right and left kidney showed a greatly reduced cortex, and the tubuli and pelves were found filled with pus The liver was very fatty and friable, breaking under pressure like old granular tallow morning of October 16, 1887, when she said she felt converted into an irregular lobulated mass, consist-The uterus was The thorax was not opened

Dr. F W Mercer I very much regret that I

have not the stained specimens to show you to-night ether, the operation previously performed by Dr I have, however, examined the tissues, and the Sibree was repeated, and a soft, friable mass, weigh tumors of the uterus are intramural myomata. The ing not less than two pounds, was removed. The tumor of the intestine is also a myoma very vascular structure. I have been unable to de- fourths of an inch in diameter, to the left side of the velop the literature on this subject, few, if any, such uterus, about on a level with the os internum. The cases have been reported and I have not been able specimen was examined by Dr Wing, who pro to find a parallel case to the intestinal tumor, as re- nounced it to be a sarcoma, I therefore determined gards the peculiarity of its attachment and the open- to remove the uterus per vaginam, which was done ness of the blood-vessels Myomata are often very three weeks ago to-day vascular

DK IS W SAWLER the condition of this patient, I want to say that she rare disease, the number of cases on record being filled a difficult clerical position, involving a good less than one hundred deal of labor, up to the day previous to her death I have seen her in life for the last ten years, and tofore not been very much used—the method of knew her to be industrious and a healthy appearing Péan, i.e., hæmostasis was secured entirely by means

It might be proper to sug-DR C T PARKES gest the idea that this was an angioma The partial description that has been given would call my attention to growths of that character, its extreme vascu- lips This was done in order to prevent any of the larity, the size of the vessels entering into it, its contents of the uterus from coming in contact with position, differing in this respect from myoma tissue about the walls might be connective tissue, the cervix into the pelvic cavity The cervix, seized showing some evidence of muscular fibre I speak with strong lock vulsellum forceps, was drawn to merely from my experience I have seen quite a the vulva, and an incision was made with scissors number of myomata, but never saw any that showed entirely around the cervix at the utero-vaginal atthe pecularities of this specimen developed, as suggested by Dr Dudley, in some were torn away from the cervix, keeping close to the other place, this being a foreign position 'As to its uterus until the cul-de-sac of Douglas was reached, attachment, I think it would be in reason to say that with two fingers in the cul-de-sac of Douglas, it was it might show muscular fibre, if it was an outgrowth from the intestine it is not a myoma

DR A REEVES JACKSON that this should be a myomatous tumor when so little muscular structure can be found as a basis in the The case, too, is interesting and remarkable in its history, from which we learn that the woman had degeneration of long standing of a portion of the liver, that there were adhesions of the bladder intestines to the abdominal wall, indicating the de-sac, but, taking a pressure-forceps with long blade former existence of peritonitis, that there was a in the right hand, I passed the index finger of the fibroma of the uterus, and yet, despite all these dis- left through the posterior opening, and hooked the eases, the patient was in good health up to a recent point of the finger around the left broad ligament, women can live and seem fairly healthy with a good terior opening I punched through to the finger tip deal of disease present, but such an amount as was present in this instance seems quite inconsistent with Ît is exceedingly ima condition of good health portant that this specimen should be examined microscopically, because its nature must be of very great interest to the pathologist

DR E C DUDLEY reported a case of

VAGINAL HYSTERECTOMY FOR SARCOMA UTERI

The patient, a multipara, 62 years of age, came to me from Dr Sibree, of Sturgeon Bay, Wis Sibree, several months before, had removed a soft, friable mass, filling the uterus and vagina two months ago, the tumor, which had returned, morly to the small intestine At least twenty min enormously distended the uterus and vagina Under utes were consumed in carefully breaking up these

It is a tumor was attached by a short pedicle, about three

The case is remarkable and interesting Remarka As a still further emphasis of ble because sarcoma of the uterus is a somewhat Interesting because a method of operation was employed which has here of pressure-forceps, no sutures or ligatures having The cervical canal was first stuffed with been used absorbent cotton, and closed with a single suture, which was passed through the anterior and posterior The the perineum, in case it was found necessary to turn It might have tachment, with the finger the post-cervical structures easy to enlarge this opening by tearing, until I had I would not say, of course, that reached the region of the broad ligament on either side, I then attempted to divide anteriorly in the It seems remarkable same way, but, being solicitous about invading the bladder, I kept so close to the uterus as actually to tear up a layer of the muscular structures I had carried this process beyond the vesico uterine at tachments, indeed almost to the fundus, before I discovered that I must be beyond the region of the I did not at once enter the anterior cul All this is very remarkable I know that then, with the lower blade of the forceps in the pos with the other blade, and locked the forceps, thus The right broad securing the left broad ligament ligament was secured in the same way, and the utero vesical attachment severed with the scissors and the Upon putting the forceps upon the right broad ligament, and finding that the dis ease had extended through the uterine wall on that side and involved the uterine end of the right broad ligament, I pulled the ligament out and put on an other pair of forceps back of those originally used These forceps included the ovary and Fallopian tube on that side, and I hope all the disease

The only difficulty in this operation was in conse quence of extensive adhesions of the uterus poste

The right ovary and tube came down patient having passed the menopause, the left were not removed. Several bleeding points anterior and posterior to the uterus were secured by means of ordinary pressure-forceps, all of which were left in

the vagina

Instead of closing the abdominal wound with sutures, the peritoneal edges anteriorly and posteriorly were caught at two points with lock-forceps, so that in reality the peritoneal wound was closed at these points, leaving space enough between the forceps for dramage All the forceps except those on the broad ligaments were removed in twenty-four hours, these were removed at the end of forty-eight hours It would possibly be safe to remove even the forceps leaving them forty-eight hours is an additional safeguard and insures more prompt separation of the necrosed tissues within their grasp

The patient had no bad symptom until the fourth day after the operation, when she developed a slightly elevated temperature and a pulse of 140, very weak and almost like the pulse of collapse, but with a moderate amount of stimulation, circulation greatly improved and was normal again in twentyfour hours It is now three weeks since the operation, she has had no further trouble, and is sitting up I learned after this trouble with the circulation what I had not recognized before, and what would have deterred me from operating had I known it, that the patient had a fatty heart

I think this method of removing the uterus will be generally adopted The operation in this case lasted forty minutes If it had not been for the adhesions it could have been done in twenty minutes

without difficulty

This operation may have a wider field than vaginal hysterectomy, I have determined that the next case I have of uterine myoma, in which supra-vaginal hysterectomy would ordinarily be performed, to serre nœud, to secure the broad ligaments by means of lock-forceps in the vagina. It would probably be easy, by having the index and middle fingers in ligament as a guide, to force the blades of the forceps through close to the uterus on either side of toneal cavity the ligament to the finger tips, and then, having sellost cured both ligaments, sever the anterior and postenor uterme attachments The peritoneal edges of the vaginal wound might then be closed with a continuous catgut suture, or seized with lock-forceps in the vagina, as already described This method of performing hysterectomy for myoma when the tumor is too large to be delivered through the vagina, is worth trying, it would enable the operator to dispense with all extra-peritoneal methods of hæmostasis, and might afford all the advantages which belong to intra peritoneal hemostasis for ovariotomy

THE PRESIDENT reported

A CASE OF VAGINAL HISTERECTOMI, and exhibited specimen

Miss P, is a virgin, 57 years of age, ceased menand were secured in the grasp of the forceps, but the struating over ten years ago. About eight months ago she had a slight hæmorrhage from the uterus, and for five months before the operation had been bleeding (sometimes profusely) most of the time had been bedridden for five weeks, suffered frequently with severe pain in the lower part of the abdomen, and was the most waxy, anæmic looking person I remember to have seen Her pulse ranged from 100 Her evening temperature, from the normal in the morning, ran up to 101° F, and sometimes higher upon the few evenings before the operation When not bleeding she had an offensive vaginal discharge She was subject to oaily hysterical attacks in which she and her friends feared she might die A loud, cardiac murmur could be heard Vaginal from the broad ligaments in twenty-four hours, but indagation revealed a friable vascular mass about the size of a hen's egg, projecting from the cervix into the vagina, and continuous with the posterior lip A piece taken from the lower end was examined and pronounced papilloma I had considered it cancer and had contemplated hysterectomy, but felt relieved at the diagnosis, because the operation would have been long and difficult on account of the virgin and senile condition of the vagina and perineum, and the success would have been doubtful by reason of the extreme anæmia and nervous prostration I also feared she would not bear anæsthesia well for the

necessary length of time

She was anæsthenzed at 9 AM, Dec 7, for the purpose of curetting, but the posterior wall of the cervix as far as the internal os was found so degenerated that a complete removal was considered impossible without breaking into the cul-de-sac of Douglas The posterior vaginal wall was also infil-trated behind the cervix Therefore I resolved to take out the uterus, and did so at I 30 PM method I employed proved so successful and seemed so well adapted to her case that I think it worth while to mention it and advise it for cases presenting simılar difficulties After a thorough disinfection of the open the abdomen, lift the tumor out through the parts, I introduced suture of juniper catgut around abdominal wound, and then, instead of using the the vaginal fornices so as to make a circle of ligatures I made a bloodless incision inside of the circle, commencing in front and separating the bladder and the broad ligaments for a short distance at the sides bethe pelvic cavity, one on either side of the broad fore introducing the posterior sutures, completing the circular incision posteriorly, and opening the peri-Scarcely half an ounce of blood was After opening the cul-de sac its entire width, a pair of hemostatic forceps was placed on the left sacro uterine and base of the left broad ligament, and the uterus cut loose on that side as far as the forceps The maneuvre was then repeated on the reached other side Then another pair of forceps was placed on each side just above the first, and the tissue severed as high as they extended A third pair on each side included the Fallopian tubes, and enabled me to cut out the uterus with the loss of less than an ounce of blood except that which had oozed from the diseased cervix. Some iodoform gauze was stuffed in between the forceps The forceps were removed at the end of twenty-eight hours, with great distress to the patient and followed by a temporary

rise of temperature from 99 4° to 100 4° F The temperature went down, however, and did not rise have quite disappeared in some parts, in others they that high again until the beginning of the fifth day, when it again went up to 100 4 F, but subsided upon | being irregular, ovoid, or spindle-shaped removal of the tampon, which had become offensive She turned on her side at the beginning of the fourth day The bowels were moved on the fifth day by a After the removal of the iodoform Seidlitz powder gauze on the beginning of the fifth day, vaginal douches with a tube for the return flow were used After the sixth day they were carboltwice a day

Hung performed the operation both ways, viz, with and without hemostatic forceps, I feel justified in asserting that ligatures are better for cases in which loma, and is now in the stage of transition to sar the size of the vagina and mobility of the uterus allow of their application without too much loss of time, for there is less bruising of the broad ligaments They may be left and less sloughing afterwards long and used instead of sutures to draw the stumps For cases in together over the vaginal opening which time is an important element, and the broad ligaments cannot be rapidly ligated, the forceps are In the hands of the beginner they are preferable safer because they may be applied with less handling and exposure of the peritoneum, and are not liable to be followed by hæmorrhage Ligation of the vaginal walls before cutting can be done so quickly and easily that it is a desirable procedure in all cases

The growth, as you see, has extended as high as the internal os, with the main part of it taken off it looks like an epithelioma of the cervix. The uterus Sarcoma, originating in the cervix, is small in size would seem to be a rare occurrence, and this one case is, as far as I can determine, the thirteenth one One has been recorded by G Veit ("Handbuch der Speciellen Pathologie," etc ,von Virchow), one by Scanzoni ("Lehrbuch der weiblichen Sexualorgane"), one by Kunert (Archiv für Gyna-kologie Bd VI, p 113), one by Leopold (Archiv f Gyn, Bd VI, p 493), one by Grenser (Archiv f Gyn, Bd VI, p 501), two by Spiegelberg (Archiv f Gyn, Bd XIV, p 178, and Bd XV, p 437), one by Rein (Archiv f Gyn Bd XV, p 187), one by Winckler (Archiv f Gyn, Bd XXI, p 309), by Winckler (Archiv f Gyn, Bd XXI, p 309), ment a gone by Schwartz (Reerman, Inches Gottingen) one by Schwartz (Beerman, Inaug Diss, Gottingen, 1876), one by Zweisel (Centralblat fur Gyn, 1884), Hunter (Am Journal of Obstetrics, Vol XVII, p 523), and this one Some of these were not primary sarcomas, but were developed secondary to other growths, such as papilloma, fibroma, etc

Report of Pathologist - Microscopical Examination of the Cervix -On the surface the growth presents the structure of papilloma, t e, villous projections consisting of a connective-tissue stroma covered over completely by several layers of ovoid cells Upon the surface of these there is a single layer of columnar epithelium In the specimen this has been stripped off on part of the surface The columnar epithelium is not as tall and less delicate than that of

of granulation cells The normal glandular elements are greatly modified, the cells lining the folicles

Many of the glands are quite replaced by sarcoma

corpuscles

In some points of the specimen there occurs a deli cate network of branching cells, presenting the char acteristic appearance of myxoma These portions are considerably softer than the surrounding struc

Diagnosis — Papilloma at surface Myxo sarcoma

The disease was probably primarily simple papil MARIE J MERGLER

DR J H ETHERIDGE I understood Dr Byford to say that a portion of the growth involved the vagina also, and I would like to ask him if he could follow up the broad ligament well enough to find if there was any involvement of that structure

DR BYFORD I did follow it up and put on the

forceps

DR ETHERIDGE I saw a case about two weeks ago that was very interesting and instructive to me It was the removal of the uterus for cancer of the Upon examination, at first we thought we cervix could not take it out, but as the whole cervix was involved and it had spread over the sides of the vagina, the left side a very little and considerably upon the right side, it was concluded to go on and The operator freed the cervix do the operation from the vagina and then commenced the peeling up process, the broad ligaments were exposed, and the forceps put on, and the uterus cut away In the left broad ligament, throughout its whole extent to the pelvic wall, there were nodular enlargements, show ing that the broad ligament itself was involved, and that, too, upon the side in which there was the least encroachment of the vagina, on the right side there was no involvement of the broad ligament. There were eight or nine forceps left in the vagina, which were removed at the end of forty-eight hours without any trouble She has recovered from the operation I have often wondered how the broad liga ment appeared when infiltrated with cancerous ma terial, and I think now that I know

If the case Dr Dudley reported is the one I saw, and he did not speak of one thing, I would like to speak of it, and that was a clever bit of ingenuity on the part of a clever operator in retroflexing the uterus If I remember rightly, he attempted to push it down and draw it down from beneath without avail, and then, by taking a pair of vulsellum forceps, he grasped the uterus just above the vaginal attachment and drew it down, then took another forceps and drew it down a little more, then another, and so on, and in that way got the uterus down easily, which impresses one who has had trouble in getting the uterus down

Since the October meeting, at which a paper of within reach mine on this subject was read by title, another case Normal Mucosa —At the base of these villi the has passed through my hands which I have not ressues are considerably altered. They consist largely ported to this Society. It was a case in which there tissues are considerably altered They consist largely ported to this Society It was a case in which there

All attempts at retroflexing posterior uterine wall or retroverting the uterus were unavailing, and it had to be removed by detaching the broad ligaments The patient has which the uterus turned upward gone along without trouble and has made a complete The uterus was removed for incoercible Everything else had been tried, scrap operation which was expected to be performed was But as I had had the experemoval of the ovaries mence of removing two pairs of ovaries for bleeding fibroids, and they kept on bleeding, I explained to her the difference between removal of the uterus and the ovaries, and she finally accepted removal of the uterus

forceps over the ligature is the superior facility for free drainage All fluids will run down through the manner, and there is no danger of the fluids remaining in the peritoneal cavity by the closing of the top of the vagina which is speedily brought about After the patient is put to bed, it is but a few hours decompose and septic peritonitis ensue, unless effective drainage, such as the forceps afford, be used to induce every operator to use the forceps

DR JACKSON the entire uterus

have lessened the danger to the patient

I want to refer to a point in Dr Dudley's remarks sues the uterus by a pedicle I desire to ask whether that is a usual method of attachment of a sarcoma? In the cases of uterine sarcoma that I have seen the disease commenced on a flat surface—the attachment was sessile I once saw a case which I at first supposed was one of sarcoma, but subsequent examination with the microscope determined that it was not a sarcoma, but a degenerated fibrous polypus,

These microscopic examinations of malignant diseases, by the way, are not always reliable, in my own experience I have received three widely differing reconfidence in the microscope as a diagnostic instrument than I formerly had I regret this very much operation, three or four weeks before the second because, in many cases, we depend almost entirely

DR PARKES I was exceedingly interested in Dr Dudley's case, and especially in the manner of securing the broad ligaments by means of forceps by the person who first invented them, Péan, of Paris In 1883 I did the first operation that has come under my care for removal of the uterus per vaginam by this method

was a development of a small fibroid tumor in the been described this evening, the use of the snap forceps in controlling the broad ligaments, instead of After listening to a report of similar cases ligatures by Dr Etheridge, I remarked that I did not see why, in this method, the uterus should be retroverted, that so far as my experience went, I found no difficulty, after the division was made in the cul-de-sac of Douglas, in reaching the top of the broad ligaments with ing, stimulating applications, ergot, etc., and the my finger, and found no difficulty in severing the attachment, and had no subsequent difficulty from I can very well see that occasional hæmorrhage cases will be met with where it will be difficult, if not impossible, to reach the top of the broad ligament so as to be sure that every portion is included in the grasp of the forceps, as in Dr Byford's case, and in another case I saw where the uterus had in its poste-I believe one of the greatest advantages of the rior wall a large tumor, and where it was with great difficulty removed In these instances it may be necessary to reverse the uterus The objection to opening in the vagina left by the forceps, in a perfect reversal is, that it twists the broad ligaments, and we know that any instrument used for pressure acts better the thinner the tissue that is engaged in the for-

It is only lately that very much has been said in before we have a closed cavity in which fluids may the journals about the use of forceps instead of liga-Within the last two years an article has appeared in the journals by a French gentleman who think that one advantage over the ligature is enough has reported some forty cases operated upon in this The objection that comes to my mind, in the It occurred to me, in examining use of these forceps in operation for myomata of the this specimen, that it was not necessary to remove uterus and large size is that, in the cases I have seen, High amputation of the cervix the broad ligament has been carried up with the utewould have removed all of the disease and would rus to such heights above the top of the vaginal wall that no forceps I have seen would embrace all the tis-Still the plan would be good, abdominal secwith reference to the attachment of the sarcoma to tion would enable one to tie the broad ligaments half way down to the uterine arteries, and then the forceps could be used

DR E C DUDLEY, in closing the discussion, said Dr Jackson has asked for my experience relative to the question whether sarcoma is apt to be attached to the uterine wall by a pedicle Sarcoma of the uterus is too rare to permit any one operator to speak from experience It is, however, true that sarcoma may be attached to the uterine wall by a broad or narrow pedicle, on the other hand, as Dr Jackson says, it may be intramural This tumor had ports, all made by competent persons, and from the a very short pedicle, the growth filled and distended same specimen, so that I must confess I have less the entire uterus, there was perhaps a pound of sarcomatous tumor in the uterus at the time of my first

I have more confidence in the accuracy of pathoon investigations to determine our diagnosis and logical observations through the microscope than Dr Jackson, never having had occasion to question the diagnosis of a pathologist, although, like Dr Jackson, I have frequently employed two or three micro-I had scopists to examine the same specimen independthe pleasure of witnessing the use of these forceps ently, but I have always taken care to employ good pathologists, of whom Dr Wing is one

The objection of Dr Parkes against the operation which I have indicated for removing myomata and In 1886 I did it again, and during the securing the broad ligaments by means of lock forearly part of this year I removed three uters, and in ceps in the vagina would not render the procedure in each of them I employed the method that has impracticable. The broad ligaments could easily be stripped from the uterus until it became possible to include them in the grasp of the forceps For this operation it would be well to have, in addition to the ordinary forceps, four pairs of forceps with very long blades, two of which could be fastened on either speaker that iodoform gauze interferes with drainage broad ligament close to the uterus, and the ligaments could be divided between them, then the ordinary forceps might be passed through the vagina with their blades on either side of the remaining portions of the After removing the uterus, the enbroad ligaments tire broad ligament on either side could then be grasped in a single pair of vaginal forceps, which should have longer and stronger blades than for ordinary vaginal hysterectomy, on account of the great

hypertrophy of the ligaments

Dr Byford considers the method of Péan inferior to that of the ligature for certain cases in vaginal hysterectomy Péan's method seems to me better and safer for all cases. The hæmostasis can be more quickly secured by the forceps than by the ligature A single pair of forceps will secure a mass which The hæmostasis is would require several ligatures almost absolute when secured by the forceps, but is uncertain with the ligature After the forceps have been left on for forty eight hours there is necrosis of that portion of the ligaments within their grasp, and we thereby get rid of it Not so with the ligature mass, it must remain as a slough, sometimes for Moreover, after a ligament is found to many days be involved in the disease for which the uterus is being removed, it may be easily drawn out by means of the forceps first applied, the surrounding tissues stripped off, and another forceps applied back of the This would be very difficult, sometimes with the ligature The mortality of this impossible, with the ligature operation may perhaps be reduced as low or lower It is certainly an than that of ordinary ovariotomy easier operation than ovariotomy with adhesions The hæmostatic forceps have indeed changed a very formidable operation to a very simple one

Retroverting or inverting the uterus through the opening posterior or anterior to the uterus and bringing the fundus into the vagina is objectionable First, some of the contents of the uterus may get into the peritoneal cavity and make trouble ond, the body of the uterus in the vagina fills it so full as to leave very little space in which to complete It will always be well, however, as a the operation precaution against infection of the abdomen from the malignant disease, to tampon the uterine canal with cotton and close the os externum with a suture, so that if it become necessary to retrovert or antevert Iodoform gauze was the uterus nothing can get out used as a vaginal tampon in this case, when removed in twenty-four hours, it was found to be fetid, and therefore seemed rather an element of danger than It also interfered with drainage at all, it should be placed between the forceps and the vesico-vaginal septum, where it would not be so liable to obstruct drainage as if placed between the It would always forceps and the recto-vaginal wall seem desirable to close the peritoneal edges of the They did not close the wound enough to prevent pulled out several joints of the tænia from his anus

drainage and they do protect the patient against the danger of protrusion of abdominal viscera in case of

severe retching, vomiting, or coughing

I cannot agree with the last DR H T BYFORD As the vagina cannot and favors decomposition well be douched during the first few days, the secre tions must accumulate until forced or drawn up through the vaginal entrance, which, in the dorsal decubitus, is the highest end of the vaginal canal By placing a small roll of iodoform gauze well up against the stumps (drawn down by the ligatures), and then stuffing in a long narrow strip so as to fill the vaginal canal loosely, and extend out to a dry piece of gauze between the labia, we can drain off the fluid portionof the exudations by capillary drain age, promote hæmostasis, prevent prolapse of the in testines, support the base of the bladder, and keep the stumps stationary until an exudate has fixed them and closed the peritoneal cavity

As to the advantage of the forceps in enabling us to remove more of the broad ligaments, I think that the less of the broad ligament removed the better If the disease has extended into the ligament, the I think that the operation should not be performed proposed combination of the abdominal and vaginal methods by the application of the hæmostatic forceps from the vagina is more complicated, more difficult, and more dangerous than supra-vaginal amputation or Hæmostasis can be se abdominal hysterectomy cured without it In case the cervix must, on account of the disease, be removed with the uterus through the abdomen, then the forceps might be applied from below, but the mortality would, in the nature of the case, be greater than that of vaginal hysterectomy or

supra-vaginal amputation

In answer to the criticism that a high amputation of the cervix would have been preferable, I will say that the cervical wall was so deeply invaded that the cul-de sac would have necessarily been opened Had it not been opened, there was not enough vaginal wall to cover the raw surfaces, and the hæmorrhage that would have occurred, and the suppuration after ward, whether the cautery had been applied or not, would have been much more liable to kill this feeble The septicæmic symp patient than hysterectomy toms disappeared in a day, and the anæmia is daily In some cases, vaginal hysterectomy diminishing is the safer operation

DOMESTIC CORRESPONDENCE

A REMEDY FOR TÆNIA

Dear Sir —It occasionally happers that one rem edy after another fails to expel a tapeworm, even though the patient is placed under proper and re stricted diet before the medicine is given A case of this kind came under my observation—a boy, aged 13 years. The diagnosis, as is usually the case, was very readily made, from the fact that the boy

as proof of his ability to make the diagnosis Turpentine, pomegranate bark, pumpkin seed, extract of male fern, and chloroform were given at different times, with the effect of expelling the greater portion of the worm, but they failed to bring away the head Some of these drugs were given the second, and even the third time

After failing with the anthelmintics that had been hitherto successful in my hands, I concluded to give salicylic acid (as mentioned in Bartholow's "Materia Medica," 6th ed) The boy was given 8 gr doses every hour, until five doses were taken, a dose of castor oil preceding, and one after the last dose of The result was that the worm was expelled entire with the operation of the oil

I F JENLINS, M D Tecumseh, Mich, March 2, 1888

NEW INSTRUMENTS

AN IMPROVED LARYNGEAL TUBE Exhibited and Described to the Chicago Medical Society,

February 20, 1888

BY F E WAXHAM, M D, OF CHICAGO

Unexpectedly I found my name upon the programme to-night I regret it because I did not intend to present these instruments until I had some further experience My experience with these modified tubes is limited to four cases, which of course are too few to allow me to speak with authority in regard to them The most earnest advocates of intubation have never claimed that the operation has been fully developed, and it will undoubtedly be This new years before the instruments are perfect device is the outgrowth of the rubber epiglottis that I have used considerably The rubber attachment in many cases worked admirably but would often fail, partly due to the disarrangement of the epiglottis on



Largest size tube shown full size

introduction, or more frequently, perhaps, to disarrangement afterwards from frequent coughing, so I have long been at work trying to find some way by which we could close the upper opening of the tube without danger of any disarrangement upon introduction or later by the coughing I have devised this metal epiglottis, that acts by means of a spring made of piano wire, which is embedded in the upper part of the tube This epiglottis works very lightly indeed As the child swallows the epiglottis falls and the larynx rises, and this metal attachment covers completely the upper opening of the tube and when the swallowing ceases the spring forces it upward The only danger I see from this instrument is from the rusting of the wire and its breaking if used too long without non-corrosive spring

being changed If made of gold it will not be necessarv to change the spring so frequently 1

My first case was seen in consultation with Dr The patient was a little child 4 years old Several months previously the child had suffered a severe attack of nephritis and had never fully recovered Four or five weeks ago the child had an attack of scarlet fever, the nephritis was aggravated and the amount of albumin in the urine greatly increased Following scarlet fever came diphtheria, and the larynx becoming involved it seemed a hopeless case, To relieve the on account of the complications urgent dyspnœa, the O'Dwyer tube was inserted, but scarcely with the expectation of recovery the first thirty-six hours there was almost entire suppression of urine The child was frantic for water and as every attempt at drinking caused violent coughing it was thought best to remove the tube hoping the child could breathe without it The tube was removed and a membranous cast about two inches in length was expelled, but it was impossible for the child to breathe without the tube and this modified one was introduced There was a great contrast between the ability to swallow with this tube and the The child died, however, about eight hours later from uræmic poisoning

The next case was seen in company with Dr Parsons This was almost a malignant case of diphtheria There was albumin in this case also, and it seemed. if possible, more hopeless than the other There was repugnance to food of any kind, the child would not take nourishment before the tube was introduced, and of course there was the same difficulty afterwards When she would make the effort she could swallow This child died about thirty-six without difficulty

hours after the operation

The next case was seen through the courtesy of Dr Roberts, of Lemont There was some diphtheritic infection, several children in the family had had sore throats and there had been small spots seen on The child had been suffering urgent the tonsils dyspnœa for forty-eight hours, I never have seen more urgent dyspnœa than in this case, there was very deep sinking in of the thorax with every inspiration, the pulse was rapid and feeble, and the child could have lived but a few hours longer was introduced and the child was able to take nourishment very nicely and without coughing, and took liquids comfortably The child wore the tube fortyeight hours and expelled it, and has made a good recovery

The next case was seen at Blue Island, through the courtesy of Dr Kaufman The child still wears The child was 5 years old and suffered the tube from urgent dyspnœa, this form of tube was introduced and he was able to swallow water without coughing, but after the tube had been in about half an hour he rejected it, it was reintroduced and he rejected it again A larger tube was introduced which has been retained ever since The report is favorable, and as the child has worn the tube this long we shall hope for a recovery in this case

¹ Since reporting the above Truax & Co have constructed for me a

I think if we are able to allow a child to take fluids a larger proportion of them will recover. Many children object to semi solid food and it is difficult to feed them, while they would more readily take liquids which would often agree with them much better. While these tubes may still need some changes I confidently expect that they will answer the purpose.

NECROLOGY.

LEVI HOWARD, MD

Levi Howard, M D, was the son of Deacon Levi Howard and Mary Howard, nec Houghton, and was born in Bolton, Mass, in May, 1820, being at his decease nearly 65 years old His father was a farmer in comfortable circumstances, and the son passed his boyhood and youth upon the firm, receiving a common-school education in his native town, continuing his studies at Worcester and at Bridgton Academy, Me He then taught school a few terms "on the cape" and in Bolton, afterwards beginning the study of medicine under the direction of his uncle, Dr Lewis W Houghton, of Waterford, He attended one course of medical lectures at Bowdom College, and then entered Dartmouth Medical College, graduating at the latter in 1845

After graduation he practiced with his uncle, Dr Houghton, in Waterford for three months. While here he married Miss Lydia J. Hapgood, and soon moved to Still River, Mass, a village of Bolton, and here practiced his profession two years. In 1848, learning that Dr. Francis Kittredge, of Chelmsford, wished to resign his lucrative practice to take up his residence in California, Dr. Howard went to Lowell, where he has ever since resided, enjoying in a marked degree the confidence and esteem of the community, as evidenced by the constant and ever increasing demands for his professional services.

Dr Howard was a member of the Massachusetts Medical Society, of the North Middlesex Medical Society, was at one time president of the latter, and held all the various offices in its gift, and of the American Medical Association from 1865 During Gov Talbot's administration he was appointed a trustee of the Blind Asylum at South Boston Never taking an active part in politics, he yet consented several years ago, yielding to the earnest solicitation of friends, to become a candidate for the office of representative in the State legislature In so doing, he was in part influenced by the behef that the change would afford him the rest which he needed from the exacting duties of his profession He was, however, unsuccessful, and, paradoxical as it may seem, his personal popularity and professional ability contributed to his defeat. Many of his personal and political friends neglected to go to the polls, feeling that his election was sure, while others voted against him, fearing that his medical services could not be had when wanted, so that, through the over-confidence of his friends, rather than the strength of the opposition, he failed to

Many his religious views he was a Baptist, and while a member of the church, and a firm believer in the doctrines of this denomination, he was never narrow For several years he was a deacon of ly sectarian the Central Baptist Church, gave largely to the erec tion of its meeting-house, and always contributed liberally to the support of public worship Two of his sons adopted their father's profession, the elder, George L, a young man of much promise, died be fore he had completed his studies, the other, Dr Amasa Howard, has been associated with his father the past two years, meriting and receiving the favor of the community Besides these, Dr Howard's only students have been the brothers Dr Samuel L Dutton, of Boston, and Dr Charles Dutton, of Tyngsborough, for both of whom their preceptor always cherished the warmest friendship, and whose success in their chosen profession is most creditable alike to instructor and pupil

In June, 1884, Dr Howard, knowing well the nature of the malady fastened upon him, left his practice in charge of his son, and in company with his devoted wife, sailed for Europe, where he spent several months, but it now seems evident that it was too late to secure even a temporary benefit from change of chimate and occupation

Not fluent in speech, his thoughts were always expressed in terse, well chosen language. He never jumped to conclusions, and the diagnosis of every case entrusted to his care was the result of a most minute and careful examination Before age and disease had impaired his bodily vigor, his very ap pearance at the bedside of the sick fairly rivalled the efficacy of the contents of the medicine chest, causing many a patient to feel if not to say that his presence "doeth good like a medicine" Another, and by no means the least prominent trait of his character, was his kindness to the poor, and many are they who, without money and without price, have received the benefit of his skill and advice, and when his body shall have been laid in the grave, not they alone but the more fortunate, all classes will join in the benediction contained in the poet's lines

> "How many a poor one's blessing went With thee beneath the low, green tent Whose curtain never outward swings"

Dr Howard leaves a widow, three sons and two daughters One son, associated with his father, has already been named, one is in his senior year in Harvard College, and the third is studying for the profession of architect Of the daughters, one is the wife of Prof J H Willoughby, principal of the Middleborough High School, and the other a teacher in London, England

The death of Dr Howard makes a void in this community not easy to fill Fortunate, indeed, will be his successor if he shall win the respect, esteem and confidence bestowed in so large measure upon the honored physician who has gone to his final

rest

GARRETT R BALDWIN, M D

Dr Garrett R Baldwin died at his home in the city of Ft Scott, Kansas, on March 4, 1888, after a prolonged illness, at the age of 47 years He was born at Saugerties, Ulster Co, New York, on May 13, 1840, his boyhood days being spent in his native village where he attended the common schools When he was quite young his father moved to Michigan, where Garrett attended the Academy at Tecumysset, and afterwards the literary department of the University of Michigan In 1857 he commenced the study of medicine with Dr Wood, of Monroe, Mich, as preceptor, matriculating at the Medical Department University of Michigan, in 1850, and again in 1860. In the fall of 1861 he entered the army, enlisting in the 18th Mich Vol. served a time as hospital steward until commissioned as assistant surgeon, remaining with his regiment until the war closed In the fall of 1865 he matriculated at Bellevue Hospital Medical College, graduating the following spring, 1866 During that summer he located at Ft Scott, Kansas, and commenced the practice of medicine, continuing without intermission until stricken down with his fatal illness He was noted for faithfulness to his chosen profession, and honored by all who knew him, beloved by his patrons and patients for his kindness and sympathetic nature He held the position of city physician in 1867 and 1868, county physician in 1868 and 1869, in 1870 he was appointed surgeon for the examination of pensions, president of the board for the same purpose from its organization in 1880, until the present administration made a change an active member of the State, South-East Kansas, and Vice President of the Bourbon County Medical He represented the State Medical Society at the session of the American Medical Association, held in New Orleans, in 1885, and again at Chicago in 1887 He made several contributions to medical literature, notably a paper on "Continued Fever," read before the Kansas State Medical Society in 1883 In 1867 he was married to Anna E Johnson, an estimable lady, who, with two sons, survives him Mankind was beautified by his labors, and the world seemed better because such a man lived

JOHN HOMER DIX, MD

John Homer Dix, M D, was the son of John Dix, Surgeon in the U S Navy He was born in Boston, 1813, graduated from Harvard College in the class of 1833. He began the study of medicine with Dr John Jeffries, receiving his degree of medicine from Jefferson Medical College in Philadelphia, 1836 He became a member of the Massachusetts Society in 1837, making the diseases of the eye and ear a specialty, he commenced practicing in Boston about In 1846 he visited Europe to avail himself of the hospital advantages and became one of Professor von Graefe's pupils He was a man of laborlous study and great self confidence, strict integrity,

lover of music Among his writings (although not numerous) I find a (Boylston) Prize Essay on "Morbid Sensibility of the Retina" He joined the American Medical Association in 1849, and attended meetings in 1864 and 1865 He contributed some valuable works to the literature of his profession After a successful practice for nearly fifty years, he died at the Isle of Shoals, August 25, 1884, bequeathing in his will a large portion of his estate to charitable institutions His widow survives him

H C HOWARD, MD

Dr H C Howard, of Akron, O, died April 23, 1887, at his residence, at 45 years of age Dr Howard was born in Akron and received his literary education in the city schools He studied medicine with his father, Dr E W Howard, after which he attended two courses of lectures in Cleveland, O, and then completed his medical education in Bellevue Hospital Medical College, New York City, in 1871, after which he entered into partnership with his father, which continued until the time of his His cheerful, happy disposition robbed the No call was ever made for sick-room of its gloom his services which did not receive his prompt atten-His untiring devotion to his patients was rewarded by a large and lucrative practice

Dr Howard was always an earnest student, keeping his library filled with the latest works on surgery and medicine His judgment was remarkably good, and his convictions firm As a physician he ranked high among his professional brethren He was kind, good hearted and genial, and never forgot the calls His genial, social and good-natured of charity disposition made him many friends All deeply mourn the loss of a warm friend, a good neighbor, an honorable citizen, and a devoted physician

MISCELLANEOUS.

AMERICAN PUBLIC HEALTH ASSOCIATION

THE LOMB PRIZE ESSAYS FOR 1888 -Mr Henry Lomb, of Rochester, N Y, offers through the American Public Health Association, two prizes for the current year, on the following subject "Practical Sanitary and Leonomic Cooking Adapted to Persons of Moderate and Small Means" First Prize, \$500, Second Prize, \$200, Judges, Prof Charles A Lindsley, New Haven, Conn, Prof George H Rohé, Baltimore, Md, Prof Victor C Vaughan, Ann Arbor, Mich, Mrs. B H Richards, Boston, Mass, Miss Emma C G Polson, New Haven, Conn Conditions—The arrangement of the essay will be left to the discretion of the author They are, however, expected to cover, in the broadest and most specific manner, methods of cooking as well as carefully prepared receipts for three classes.—(1) those Association, two prizes for the current year, on the following

as well as carefully prepared receipts for three classes, -(1) those of moderate means, (2) those of small means, (3) those who may be called poor For each of these classes, receipts for three meals a day for several days in succession should be given, each meals a day for several days in succession should be given, each meal to meet the requirements of the body, and to vary as much as possible from day to day. Formulas for at least twelve din ners, to be carried to the place of work, and mostly eaten cold, to be given. Heathfulness, practical arrangement, low cost, and palatableness should be combined considerations. The object of this work is for the information of the beautiful. genial in disposition, kind to the poor, and a great whose requirements the average cook book is ill adapted, as well

All essays written for the above prizes must be in the hands of the Secretary, Dr Irving A Watson, Concord, N II, on or before Sept 15, 1888 Lich essay must bear a motto, and have accompanying it a securely scaled envelope containing the author's name and address, with the same motto upon the outside of the envelope

After the prize essays have been determined upon, the envelopes bearing the mottoes corresponding to the prize essays will be opened, and the awards made to the persons whose names are found within them. The remaining envelopes, unless the corresponding essays are reclaimed by authors or their representatives within thirty days after publication of the awards, will be destroyed, unopened, by the Secretary

None of the judges will be allowed to compete for a prize The judges will announce the awards at the Annual Meeting of the American Public Health Association, 1888

It is intended that the above essays shall be essentially Ameri can in their character and application, and this will be considered by the judges as an especial merit

Competition is open to authors of any nationality, but all the

papers must be in the English language

The subjects selected and successful competitors in the past three years are as follows 1 "Healthy Homes and Food for the Working Classes," 62 pages, by Prof V C Vaughan, of the University of Michigan, 2 "The Sanitary Conditions and Necessities of School Houses and School Life," 38 pages, by Dr D F Lincoln, of Boston, 3 "Disinfection and Individual Prophylaxis against Infectious Diseases," 40 pages, by Major G M Sternberg, Surgeon U S Army, and 4 "The Preventable Causes of Disease, Injury, and Death in American Manufactories and Workshops, and the Best Means and Appliances for Precenting and Avoiding Them," 19 pages, by Mr George H Ireland, of Springfield, Mass

These may be obtained at the book stores, or of Dr Irving A Watson, Secretary, Concord, N. H., at the following rates Single copies, No 1, 10 cents, Nos 2, 3, and 4, 5 cents each The entire four essays in pamphlet form 25 cents, or in cloth binding at 50 cents or 75 cents, according to style of binding and paper. The desire is to distribute these as widely as possi ble among the poorer and middle classes

THE NEXT MEETING OF THE ASSOCIATION OF AMERICAN MEDICAL EDITORS —The following programme has been ar ranged for the meeting at Cincinnati, Monday evening preceding the meeting of the American Medical Association, May, 1858

Meeting called at 8 P M

Reading of minutes

President's Address, William Porter, M D, of St Louis Report of Committee on Organization, Dr McMurtry, Chairman, Danville, Ky

Flection of officers for ensuing year

Extraordinary business Questions for consideration

I Is the multiplicity of medical journals an advantage to the profession? To be discussed by Drs Crothers, Hartford, Sine, Memphis, Wile, Conn, I ove, St Louis, Culbertson, Cincinnati, Cushing, Boston, Coomes, Louisville, and Gray, Chicago 2 How far do medical journals distributed by drug houses

and manufacturers interfere with regular medical journalism?
To be discussed by Drs Reynolds, Louisville, Davis, Chicago,
Shoemaker, Philadelphia, Bond, St. Louis, Connor, Detroit,
Kiernan, Chicago, Thacker, Cincinnati, and Fulton, St. Paul
Members are requested to limit their remarks to fifteen min

utes, and if possible to ten, The place of meeting will be posted in all the hotels by the local committee Arrangements can be made at this meeting for a "press dinner" for another evening during the week, but it will be impossible to conclude the business of the Association and have the dinner the same

HEALTH IN MICHIGAN, FEBRUARY, 1888 -For the month of February, 1888, compared with the preceding month the re ports indicate that bronchitis, influenza, and measles increased in Compared with the preceding month, the temperature in the prevalence

as to bring her attention to healthful and economic methods month of February, 1888, was higher, the absolute humidity, the relative humidity, and the night ozone were more, and the day ozone was less

Compared with the average for the month of February in the nine years, 1879-1887, measles increased, and diphtheria, con sumption of lungs, pneumonia, intermittent fever, and scarlet fever were less prevalent in February, 1888

For the month of February, 1888, compared with the average of corresponding months for the nine years, 1879 1887, the tem perature was slightly lower, the absolute humidity was slightly less, the relative humidity was the same, the day and night ozone were considerably less

Including reports by regular observers and others diphtheria u as reported present in Michigan in the month of February, 1888, at 40 places, scarlet fever at 45 places, typhoid fever at 17 places,

mensles at 39 places, and small pox at 1 place
During February 1 disease variously named as a "common cold," and "epidemic influenza," has been very prevalent. It has affected to an unusual extent the root of the tongue It has run through families, neighborhoods, and schools Physicians have sometimes been called, especially when the cold threatened to "settle on the lungs"

AN ERGOT-MILL FOR OBSTETRIC BAGS -Dr Loviot, in describing Professor Pajot's obstetric bag in the Annales de Gynecologie, notes that it contains an ergot mill This instrument resembles a small coffee mill, bearing, like that familiar domestic instrument, a handle, but in size it is not larger than a pepper mill, and might work by the same simple mechanism. It may readily be packed in the bag, as it takes up very little The practitioner can only rely on freshly pulverized rye This mill enables him to powder the ergot on the ergot of rye spot, so that in the hour of need a strong preparation of the drug may be made in the patient's chamber, even in the most In this manner perilous delays caused remote country districts either by mert liquid preparations of ergot, or by waiting till some fresh tincture or fluid extract is brought to the lying in room from some distant druggist's shop, are avoided, to the great advantage of the patient and the practitioner—British Medical Journal, March 10, 1888

SIR HENRY ACKLAND has recently had an eye removed for hæmorrhagie glaucoma At last accounts he was doing well

MR T B CURLING, a well-known English surgeon, died at Cannes on March 4, of pulmonary congestion

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM MARCH 10, 1888, TO MARCH 16 1888

Major G M Sternberg, Surgeon, ordered to proceed to Bruns wick, Ga, on official business, and upon completion of same will return to his proper station S O 57, A G O, March 10, 1888

First Lieut Jefferson R Kean, Asst Surgeon, reheved from duty at Ft Sill, Ind Ter, and ordered for duty at Ft Robinson, Neb S O 56, A G O, March 9, 1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U S NAVY, DURING THE WEEK ENDING MARCH 17 1888

A Surgeon W H Rush, detached from Navy Yard, New York, and to Naval Hospital, Philadelphia, Pa

A Surgeon J M Steele, detached from Naval Hospital, Philadelphia, and to Coast Survey Str "Bache"

Medical Inspector A S Oberly, detached from Navy Yard,

Portsmouth, N H, and wait orders
Surgeon F L Dubois, ordered to the Navy Yard, Portsmouth,
N H

Asst Surgeon, James Keeney, ordered to the receiving ship

P A Surgeon C W Deane, detached from Marine Rendez vous, San Francisco, and to Coast Survey Str "McArthur" Asst Surgeon E W Auzal, detached from Coast Survey Str "McArthur," and to Marine Rendezvous, San Francisco

P A Surgeon Clement Biddle, ordered to Naval Academy, An napolis, Ad

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

PUBLISHED WEEKLY

Vol X

CHICAGO, MARCH 31, 1888

ORIGINAL ARTICLES

METHODS OF EXAMINATION OF BACTERIA FOR LABORATORY PURPOSES,

Based upon Notes taken in Prof Koch's Laboratory

ın Berlin BY S N NELSON, M D, OF BOSTON MASS FUNGI

Bacteria are a species of fungi coming under the division of the fission fungi besides the fission there are two other varieties, the mould and budding fungi

The mould fungi are divided into Penecilium, Aspergillus and Mucor, being distinguished by the The base or difference in growth of the seed stalk extending in every direction, forming a mycelium from this extends the seed stalk

Penecilium The seed stalk extends upward like a pencil It has no male or female members The oldout by the younger members The distinguishing characteristic is that the spores grow on branches

Aspergillus When the spores of penecilium are joined together closely it forms the second variety aspergillus—the spores here growing in masses on a head

Mucor Here the spores are enclosed in a capsule, which has a brown or yellow color. If the capsule is shaken it bursts and the spores fall out. The characteristic of this variety is that the spores grow in a head or capsule

2 Budding fungus This is the fungus of fermentation, although all do not cause it. It has no mywith budding processes cells are fat cells and vacuoles

budding fungi-the "ordium" This is the fungus of this variety of bacteria is not well known Favus, and is pathogenic of this disease and buds, but it grows as a my celium, a number motile organs of longish cells lying on one another

of the cell and subsequent separation of the parts | scope

They are different also from the budding fungi, in that the cells are immeasurably smaller

The most elementary form is the coccus, having a bullet shape, all axes being alike When lying with no regular arrangement they are simply spoken of as micrococcus, if they occur in pairs they are called diplococci, as that of gonorrhæa, if they are found four together, they may or may not be enclosed in a capsule, they are called tetracoccus, if found in the shape of a cube, four on each face, they are termed sarcinæ, if they occur in strings or chains, they are spoken of as streptococcus, as of erysipelas, and if in bunches, like grapes, staphylococcus The substance binding the cocci together is called the The spore formation of cocci has not yet been studied up, fat globules may be mistaken for spores

The bacilli are rod like forms with a difference in substratum of all is a mass of anastomosing threads, the two dimensions. A characteristic element is their development. One way is by fission is noticed in the middle of the cell, forming a constriction, and finally the two sections fall apart forming two plants The other way is by spore formaest spore is always the terminal one, being pushed tion, to be spoken of further on These bacilli form strings, being joined end to end, and it often happens that we cannot distinguish the different members of the long threads These threads may run in straight lines or breed upon themselves in any direction There are many varieties of bacilli, some resemble cocci, but among them will always be found enough rods to fix the variety This is especially noticed during rapid growth. When the growth is slow one

The Spirillium, or third variety of bacteria, is characterized by being curved on its long axis, in different combinations There is the plain curve or breed, as seen in the comma bacillus of cholera, the true celium or spore formation, but consists of ovid cells spiral form, more or less resembling a screw, as that The spaces seen in the of relapsing fever, called an elementary form, and finally a complex form, where the spiral is bent upon There is a transition form between the mould and itself in different directions. Spore formation in

dimension is always longer than the other

Many bacilli have cilia at the ends which in many logically it resembles the budding fungi, having cells cases are hard to distinguish. These cilia are the

Examination of the Mould and Budding Fungi -3 Fission fungi These are all true spirochete, or A small bit of the fungus is placed in alcohol, to bacteria—the latter being a general name for the which a drop or two of ammonia has been added, whole class Like the other fungi, they belong to until it sinks. It is then placed in glycerine and can the vegetable kingdom, and increase by the division be easily torn apart and examined under the micro-

Colors and Staining -The difference of refraction between an object and the air makes a colorless ob ject visible. When the medium approaches the refractive powers of the object then the object cannot be seen, as is shown when a glass rod is placed in oil are to be first thoroughly sterilized. Test tubes are The experiment is best shown when a row of dishes is taken, the first being empty, the other dishes being filled respectively with water, oil of cedar, and Canada balsam If now a glass rod or a lot of glass beads is placed in each of these successively it will be seen to grow less and less perceptible to the sight With a colorless rod we simply ally sufficient when the cotton plugs are slightly get a structure picture, while with a colored rod we tinged jellow have in addition, the color

Following out the principles here involved we make use of the following stains or dyes to render the bacteria more visible

Methyl violet or gentian violet. This acts quickly and deeply, but may overstain

A red stain, not acting as quickly as gentian violet, but not as likely to overstain

does not overstain

Bismark brown, used mostly for contrast staining Heat is not needed with this dye and it acts well in water and glycerine

To prepare the staining solutions. First make a concentrated alcoholic solution, using absolute alco hol, then to some of this alcoholic solution add distilled water until the resulting solution is no longer transparent, generally about six parts of water are needed to one part of the alcoholic solution, filter, and the solution is ready for use Bismarck brown cannot be used in alcoholic solution, a concentrated watery solution must be made

Cover-glass Preparations — A platinum needle must be held in the flame of a Bunsen burner or alcohol lamp, in order that it may be thoroughly sterilized, and after it has cooled we remove with it a small quantity of the material to be examined and make as thin a layer as possible on a carefully cleaned coverglass—the less material used the better If a second cover-glass is rubbed on the first the layer will be made thinner The specimens are then to be dried in the air, under cover, and when dry are to be drawn three times through the flame, with the surface containing the specimen uppermost This serves to coagulate the albumen and thus to fix the bacteria Care must be taken not to overheat the specimen They are then ready for the staining, which may be repeat the heating If filtrate is clear and slightly done by dropping some of the watery solution of alkaline, then filter the whole amount through a the stain upon the preparation and allowing it to stand, perhaps using a little heat, or by allowing the specimen to float, specimen side downward, in a dish containing the staining solution—from one to twenty minutes may be required The preparations are washed in distilled water and if overstained, decolorized For this purpose alcohol, acetic or the mineral acids are used, generally water and alcohol are sufdried and the specimen ready to examine It may be laid on a slide with a drop of distilled water and desired to keep the preparation, the specimen is time fluid and at another temperature solid, and is

allowed to dry by allowing the water on the specimen to evaporate, and by means of Canada balsam the cover glass may be fixed on the slide

Cultivation of Bacteria -All utensils to be used to be first thoroughly washed and dried, they are then closed up with plugs of cotton wool, so made that they may be easily removed when necessary The tubes are then to be sterilized under a dry heat, under a temperature of 150° C,—302° F—twenty minutes will be long enough The heating is gener They are then allowed to cool and are ready for use We have found that this could be done in the oven of a kitchen stove or range. In the same way flasks and other utensils may be made sterile

Peptone Gelatine — Take a pound of fresh, lean meat, containing little or no fat, mince it finely, add a little water and allow the mixture to stand over The following day the liquid is thoroughly Methyl blue This shows the finer structures and strained and pressed from the meat, water being added to bring the amount up to a litre. Then the following is added

> Peptone sicca, 10 grams Common salt, Gelatine,

[Instead of the above 10 grams of Liebig's extract may be used with a litre of water]

The mixture is then allowed to stand in a flask a quarter of an hour, or until the gelatine is thoroughly Flask is then placed on a water bath and softened heated to 60° C -140° F -until the gelatine is en At the temperature above named tirely dissolved coagulation of albumen does not occur a solution of sodio-carbonate with a pipette till a test shows no acid reaction, and the solution is neutral or perhaps slightly alkaline, many bacteria preferring an alkaline medium, then lightly plug up the neck of the flask with cotton and heat for an hour in a steam kettle at a temperature of 100° C -212°F Being heated and sterilized in constantly rising steam is much better than ordinary boiling, as we can ob tain a higher temperature, while in common boiling cold air comes in contact with the flask, thus lower ing the temperature Next test a little of the liquid by filtering If the filtrate is still cloudy, boil longer, if it is clear, test to see if it still remains alkaline, If not, add more of the sodic carbonate solution and double layer of filter paper and pour into the alread) The tubes are filled about a sterilized test tubes This can be easily done by quarter of their depth attaching a piece of rubber on the end of the funnel, to which is attached a stop arrangement by which The tubes are plugged the flow can be controlled immediately after the filling and are then sterilized for three successive days, fifteen minutes at a time The clean surface of the cover-glass is then By these repeated sterilizings at this high tempera ture the germs and spore that are hard to destroj by

ordinary heat are killed The advantages of gelatine are that it is at one Pasteur uses germs may get to all parts of the sub- tube tube upside down in the left hand and loosen the end cotton plug, with the platinum needle which has ond tube. I terial to be examined, remove the plug with fingers that of tube I by the fingers of the right hand must not be placed in the sun or in a hot place, generally the number taken otherwise they will melt and culture be destroyed. the germs being diffused in the mass

The different manifestations in growth are to be porcelain, made by A W Faber) noticed as the distinguishing points of different germs, such as, superficial and deep growths, lique-faction and non liquefaction of the gelatine What relation the growth bears to the inoculation line a germ needs much acid from the air the growth is mainly on the surface of the gelatine It may he here flat or in a raised clump The inoculation line may be thickened or have little prominences here With germs that liquefy the gelatine it happens usually that the gelatine is liquefied to an equal depth It may be slow and evaporation take place and an air space result It may even occur at the bottom of the gelatine, while the upper part remains solid, or it may occur at different places along the line

The inoculation streak, "Stitch Culture" The tubes when cooling are so laid that there is a slanting surface and the streak is made by drawing the platinum needle lightly over the surface This method is not suitable for bacteria that liquefy gelatine

Slide cultures are made by pouring liquid gelatine on sterilized slides and then allowing them to cool This is an excellent method for cultures over the surface cultures it is best to melt it at as low a temperature as possible, just sufficiently to pour it out of the test way a culture of but one germ is obtained

Plate Cultures —All utensils to be used must be sterilized before using Glass plates by dry heat Glass jars are to be carefully washed and then rinsed out with a solution of corrosive sublimate, 1 1000 good formula being about 7 grains to pint of water) When ready a piece of blotting paper moistened with same solution of sublimate is laid on the bottom and another piece, also moistened, on the inside of the and hold it upside down till it is placed on the levelcover Gelatine tubes are then heated at about 32° litre of water, instead of the minced meat)

The germs will remain at the spot and plunge into the liquid gelatine Repeat this five where they fall, while with the fluid stratum which or six times and thoroughly mix the material in the This is best done not by shaking so that bub-To inoculate a tube of gelatine, hold the bles may form, but rather allow it to flow from end to From this tube, labeled O, we inoculate a sec-The two tubes are taken in the left been sterilized in the flame take up a bit of the ma- hand, the plug of tube O being also held in this hand, of same hand, and plunge the needle into the gela- previously sterilized platinum needle is first plunged tine, keeping in the middle line as nearly as possible into O and immediately carried into the gelatine of I and not going to the bottom of the tube After Four or five times will be enough, and in the same withdrawing the needle, replace the plug, label the way inoculate from tube I into tube II, and if O is tube and watch developments This is the so called to be thrown away, if thought to contain too many inoculation line-"Stitch-Culture" Gelatine tubes germs, from tube II to tube III, three plates being

> (Instead of paper labels for numbering the tubes pencils may be obtained that will mark glass and

When the contents of the tube are thoroughly mixed, the gelatine is then poured upon the plate under cover, commencing with tube O, or tube I, according as it is desired to retain O or not gelatine is spread evenly on the plate by means of a sterilized rod or with the edge or lip of the test tube, which has been previously heated, leaving a margin between the edge of the gelatine and that of the glass plate The plate is then allowed to cool, under cover, and hastened if necessary by resting on ice On the bottom of a jar already prepared, place a glass bench and on this the plate containing the gela-A second bench is placed over this to receive the next plate I or II as the case may be, prepared with the same precautions as the previous plate, the plates being labeled to correspond with the tubes, and so on Any accidental germs that may get in will grow on the surface, while the others will grow in the depths of the gelatine. When all the plates are in the jar, cover and place away for observation, noting progress from day to day

If the moculation has been made from a material The specimen is taken up by the platinum needle where probably more than one germ may be found, which has been heated by the flame and drawn lightly we can make our pure culture from the above plate When the growths on the plate are disexamining growths, as it can be placed under a micro-tinct and have not run together the last plate is the scope In liquefying gelatine preparatory to making best one for this purpose, we make an inoculation from the growth desired to a gelatine tube, in which

The different characteristics of the growth on the plate are to be noticed as distinguishing different

germs, just as in the tube cultures

Agar-Agar —This has many advantages over gelatine, the principal one being that it does not liquefy at ordinary temperatures It is prepared in the same way as gelatine A pound of fresh, lean meat being minced and allowed to stand over night in a litre of water, pressed and strained on the following day, cover, if a hole is cut out of this the contents of the and brought up to a litre by adding water. It is then jar may be partially seen Now take a glass plate placed in a clean flask with 10 grams of peptone and 5 grams of common salt and filtered (As with gelaing apparatus, and cover immediately with a glass tine, 10 grams Liebig's extract may be used with a C,-86-90° F,-just sufficiently to allow the gelatine filtrate add 15 grams finely cut agar-agar, and allow to pour but not enough to kill germs Then remove whole mass to soak over a water or sand bath at a with sterilized platinum needle the substance desired temperature of 50-60° C -112-140° F -and lastly,

galf data of the man of the state gall bending an affect of the state heated directly over the flame and must be heated till it is thoroughly divided. It finger, turned over and placed in the jar. In this is then neutralized with solution of carbonate of soda way the cut surfaces of the potato has had nothing in the same way as gelatine, and then filtered This in contact with them but the sterilized knife Do is the hardest part and is best done at a temperature the same with the other potatoes till enough are cut of 100° C -212° F -in a steam Lettle made high to fill the jar. The jar is covered after each potato enough to hold the flask and funnel. It is then run is placed in it till the next is ready into test tubes and sterilized for three successive days, lifteen minutes at a time. It is used for moc. ulations and cultures in same way as gelatine and is especially suitable for bacteria that liquely gelatine It is also good for germs that require high temperature, as in a culture oven or incubator

Blood Serum - Some germs, notably the tubercle must be taken to expose the potato to the air as little bacillus, will not grow on either gelatine or agar-agar, and for these blood serum serves excellently for a cleansed and sterilized, it will show for itself by the stratum Beef or sheep's blood is used, being caught growth of the potato bacillus from the animal in sterilized vessels and immediately placed away in the cold to quietly settle for 24-36 Up till lately, the examination of water was a chem hours in order that the serum may form If shaken ical one, but it was not reliable, as it could not deor moved the serum becomes tinged with the blood | teet the organic elements, which have no relation to coloring matter. When the serum has formed it is the chemical constituents. Distilled water contains removed by means of a sterized pipette and poured | plenty of germs | A good drinking-water should coninto test tubes, previously sterilized, which are filled tain as few bacteria as possible, still, many geims about one-third their length sterilized like gelatine tubes and is best done in an apparatus where they lie in a slanting position at a temperature of 58°-70°C -131°-158° F —the former being the better, if possible, for one hour, for five or six days. When firm place the serum tubes with their plugs in a culture oven or incubator to see if they are sterile or not. The serum forms an opaque mass and the inoculations are made as streaks along the surface of the serum with a sterilized platinum needle, as with gelatine

Bread Substratum —This is used for cultivation of the mould and budding fungi Small flasks are washed and dried, then plugged with cotton and They are then partly filled sterilized with dry heat with powdered bread and just enough water added They are then with a pipette to be soaked up sterilized by dry heat and are ready for use inoculations are made from the desired material to the surface of the bread

Potato Cultures — The potatoes must be as fresh and perfect as possible in every respect. Bits of earth adhering to the eyes must be cut out and the growths develop they may be counted, if the plate potatoes carefully cleaned with a brush then to stand an hour in a 1 1000 solution of corrosive sublimate, by which the skin is made sterile They are then placed in a pot and thoroughly steamed | made on agar-agar in a steam kettle at 100° C, being allowed to remain here from a half to three-quarters of an hour is sufficient for new potatoes, old ones requiring a When taken out they are allowed to longer time cool and are then ready to be handled Before handling, knives are to be heated in the flame and cooled, edge up, under cover, glass jars to be cleaned than the ends which are colored intensively, this is and rinsed out with a solution of sublimate, I 1000, hands to be brushed and bathed in same solution Potato is to be picked up between the thumb and this is the spore forefinger of the left hand and cut through the mid- leads an independent existence They vary in shape dle with a sterilized knife which is not to be removed and position may be round, oval, and may have until the potato is placed in the jar, when the upper their long axis across the bacillus, some bacilli have

Agar melts slowly half is to be removed by means of the knife and the

Inoculations are made by taking a bit of material to be examined on the tip of a sterilized knife and spreading it on the surface of the potato, leaving a clear margin around the border From this a bit is taken out of the centre and spread on the second, from the second to the third, and so on Precaution as possible. It the potatoes have not been thoroughly

Examination of Water and Counting Bacteria -The tubes cannot be are found in the air, which are perfectly harmless On the whole, one may say that a sample of water containing 100 germs is better than one containing 1,000 germs, still, it may not be, as the 100 may con tain pathogenic forms, though of course the possibil ities naturally increase with the increase in number of the bacteria in a certain quantity of water Water should always be examined immediately after re-The circumstances surrounding any specimoval fied water should also be examined When a well is pumped dry and allowed to fill again, there will always be found a number of bacteria in the water If there are but 100 germs in a cubic centimetre of water, then we say that water is comparatively pure, In counting absolute purity is almost impossible germs, a certain definite amount of material is taken with a sterilized pipette and inoculated in a gelatine The tube, generally i cubic centimetre of water or other substance is taken to ro cubic centimetres of the gelatine, and a plate culture made with all the pre cautions mentioned, the jar containing the-culture placed away and noted from time to time When They are has been marked off in squares and subdivisions the counting is rendered easier. If any of the germs liquefy the gelatine, then a new culture must be

Spore Formation -Asspores have not been studied This up in the case of cocci, the knowledge of spore form ation is connected with the study of bacilli Spores are a special growth in the life of the germ In staining germs it is will not stain like bacteria often four d that the middle part stains less deeply not the real spore stage, but the one preceding it First an oval body appears, which will not take color, Then the spore frees itself and

the spore in the end, forming a club of bacilli from spores occurs in different ways. It lize with absolute alcohol and acetic acid may grow out from the ends, from the side, or may trast color use methyl blue For spore formation there bulge out broadside must be a higher temperature than is necessary for staining solution more intense, aniline oil has same Anthrax spores the growth of ordinary bacteria will grow at 30°-32° Cent, 86°-90° Fah, and in a Ehrlich's method is a solution of fuchsine or gensolid stratum. For staining see under "Double tian violet and aniline water. It is made exactly as Staining"

Hanging Drop - Special slides are made for this purpose, they being thicker than usual and the cen tre being hollowed out about the circumference of a three-cent piece Slides and cover-glasses are thor oughly cleansed and sterilized The bouillon used is the same as that used in making peptone gelatine, without the addition of the gelatine, same formula and process used in making it. A drop of this is with a trace of a pure culture by means of a sterilized The cover glass is then carefully platinum needle turned over and laid over the spore in the slide and the edges covered with vaseline, to prevent evapora The preparation can then be examined under the microscope and the growth observed It is es pecially suitable for spore growth

on the fact that aniline colors do not react the same entirely washed out Bacteria are stained more tion should be made fresh, gentian violet added and the preparation stained in the ordinary manner. It is then brought into a solution of iodine and iodide of potassium (1 part 10dine, 2 parts of K I and 100) parts of water), this decolorizes everything but the bacteria. To make the aniline water solution pour aniline oil into a test-tube till it fills the concavity, then add distilled water to two thirds or three-fourths the length of the tube, then filter, the filtrate will be clear Add gentian violet till you have a light cloudiness, and shake the test-tube thoroughly

Let the preparation remain in this solution five to ten minutes, when it is to be brushed through the iodine solution, generally twice will be enough, in time perhaps half a minute, then bring into alcohol, out, the bacteria being stained violet For contrast color color use Bismarck brown

Staining Spores - The prettiest results are obtained by using double staining, the spores being the other hand, they are hard to decolorize stained red and the bacilli blue or six times through the flame, by which the spores little round clumps of material are made more prominent by the bacilli being more fuchsine or violet solution, using a little heat if on the blood serum that has been described hence ordinary staining will not suffice this solution use the following formula

The growth violet, 11 ccm, absolute alcohol, 10 ccm Decolor-As a con-

Tubercle Bacilli - An alkaline solution makes the

effect also

the solution for staining spores, using the same for-A preparation of the suspected sputum is made on a cover-glass in the ordinary way, dried in the air and then drawn three times through the flame, care being taken not to overheat the specimen The preparation then is placed in the above fuchsine or violet aniline solution for twelve hours, it is then brought into a solution of nitric acid and water, 1 to 10, for some seconds, where it is decolorized, it replaced in the middle of a cover-glass and inoculated mains so long as clouds come off the preparation, ordinarily inside a minute being long enough, it must show no yellow shimmer It is then brought into not less than 60 per cent alcohol and washed, and for contrast color into methyl blue, is then washed with distilled water. The tubercle bacilli will be stained red, the other germ cells and elements will be stained blue If violet has been used instead of Double Staining, Gram's Method —This depends fuchsine use Bismarch brown for contrast color Use oil immersion lens and Abbé condenser The prowith all bacteria, from some germs the color can be cess may be shortened by heating the fuchsine solu-A more rapid and as certain a method is thoroughly with an aniline water solution in addition Liehl's modification, the whole process not requiring to the ordinary coloring matter The aniline water over ten or fifteen minutes Instead of aniline water, which must be often renewed, he uses phenol in a 4 per cent solution Phenol, 4 grams, absolute alcohol, 5 ccm, water, up to 100 ccm Then add fuchsine or methyl violet 1 gram, dissolved in absolute alcohol, 10 ccm -31155 Allow the specimen to remain in this solution five minutes Heating will have same result quicker, heat till bubbles come off, may add the solution to the cover-glass preparation of the sputum, which has been made in the ordinary way, and then heat the cover-glass over the flame It is then brought into a r to 10 solution of sulphuric acid and water to be decolorized Next come in absolute alcohol, rapidly drawn through till the coverglass has a dirty-yellow color, is then washed with distilled water and stained with methyl blue, or Bisthe brown color due to the iodine is then washed marck brown if violet has been used, for contrast Here, as by the preceding method, the tubercle bacilli are red, remaining elements blue bercle bacilli react very slowly to aniline colors, on The best results must be taken not to allow the specimen to remain are obtained with the spores of the anthrax and hay too long in the decolorizing solution, else the tuber-bacilli. Make an ordinary cover-glass preparation, cle bacilli will be decolorized. In a suspected sputum using the material from the hanging drop, draw five the parts most likely to contain the bacilli are the

Pure Culture of Tubercle Bacilli —With a platinum or less destroyed, then stain with the aniline water, needle make an inoculation of the suspected sputa Spores have a firmer capsule than bacteria, germs grow, if pure, have a grayish-white layer on the dinary staining will not suffice. To make serum, the bacilli grow slowly. To prevent the en-Of the sat- trance of other germs, heat the end of the tube, tourated aniline water solution mentioned under Gram's gether with the cotton plug, may also place a drop method, 100 ccm, conc alcoholic sol fuchsine or of sublimate on the cap to prevent evaporation

Place in culture oven or incubator, at a temp of 35° keeping the remaining fingers on the gauze to keep Cent, 95° Falt It may be ten days before a growth the animal in the jar Then the hair is clipped away is noticed

Staining Cuts of Tissues -Small pieces of material to be examined are hardened in alcohol, remain- duced to make a pocket, and the inoculation made ing here twenty-four to forty-eight hours at least, when in this pocket. Of course all utensils are thoroughly they will have the consistency of soft cork then stuck on pieces of cork by means of glycerin jar and watched from day to day gelatine, made by a part gelatine being placed in water till it has swollen to double its volume, it is then placed in a part of glycerin and heated over the flame, thus making a mucilage. It is then glued on a cork by this mucilage and again placed in alcohol for further hardening Cut with a micistome

Cut is then placed in the ordinary solution, where it spreads and in a few minutes has absorbed the dye, it may be overstained and may sink a little From five to ten minutes is long enough to leave the cut in the staining solution. It is then washed off mother of several children, first noticed an enlargewith alcohol, clouds come off and cut looks pale and shrunken The germs and cell nuclei remain stained, the remaining elements being decolorized. It stays in absolute alcohol one or two minutes to remove water, is then cleared up with cedar oil and mounted in Canada balsam

Cuts may be double stained according to Gram's They are placed in a solution of the fuchsine aniline water solution, next in the iodine solution for from one-half to one minute, this renders the It is then placed in alcohol while clouds come off, and next in absolute alcohol to remove the patient's home, however, was at Rappahannock Stawater one or two minutes, place again in absolute alcohol, cedar oil and mounted in Canada balsam

Germs are found in different parts of the tissues Anthrax bacilli are found in the liver and lungs, often her taken at once to a private room in the Proviin clumps

Tubercle Bacilli in Cuts of Tissue —Fiehl's method is the best for this purpose The cuts are placed in the carbol-fuchsine solution for ten minutes, then rapidly in the 1 to 10 sulphuric acid solution, and next in alcohol till clouds have all passed off For contrast color let it stand in methyl blue for five to ten min-Is next placed in absolute alcohol to remove the water, cleared up in cedar oil or bergamot oil and mounted in Canada balsam They cannot be stained by Gram's method The bacıllı are red, while all else The bacilli are found in the cells, especially in the giant cells, and are generally in that part of the cell farthest removed from the nucleus, may be found irregularly in the tissues When cells break down the bacılli are set free

All sorts of animals are susceptible to the tubercle If inoculated in a cutaneous vein, tuberculous affection will develop in fourteen days lution containing the bacilli may be injected into the peritoneum, localizing the process there

Inoculation Experiments - Use ordinary house The animal is held by an asmice or white mice sistant or is hung in a glass jar which is about six inches deep, covered by a piece of wire gauze gauze is raised enough to admit a pair of forceps to responsibility with me hanging inside, and held by the thumb and forefinger, an exploratory incision was recommended and Mon

at the base of the tail and a V-like cut made into the skin with a pair of scissors. A lancet is then intro-They are sterilized. The animal is then dropped back in the

THREE BAD CASES OF OVARIOTOMY, TWO DOUBLE, ONE SINGLE

Read before the Medical Society of the District of Columbia, November 23, 1887

BY JOSEPH TABER JOHNSON, MD, OF WASHINGTON, D C

Case 1 -Mrs M, white, æt 51, married and the ment in the left side of her abdomen four years ago It grew rapidly and gave her considerable pain She became an invalid and for the past year was unable to leave her house, and for the last six months was compelled to stop in bed, partly on account of failing strength, and partly on account of the large size of the tumor

She had been treated to the materia medica mostly, and the entire surface of the abdomen bore evidence of the vigorous and lavish use of iodine sent to me by Dr Khpstine, of Alexandria The For contrast color use Bismarck brown for tion, Va, and she was brought to Washington by her son-ın-law, Dr Quackenbosh, of Florida As she was not able to sit up, a section was taken for her in a sleeper, and she bore the journey very well I had dence Hospital, where she was put to bed and al lowed to rest

Upon examination I found an enormously enlarged abdomen which gave the impression of containing a unilocular cystic tumor, so clear was the wave of I thought it would weigh at least fifty fluctuation The weight was so great that the patient pounds found it impossible to lie for any length of time on her back, but rested for the most of the time on her left side in such a position that the bed supported the weight of her burden

For several weeks the patient had been voiding less urine than normal, some days less than a pint, and that contained albumin She suffered from nausea, constipation, indigestion, and got little sleep She was certainly in a bad way, and was rapidly growing worse Her pulse was rapid, weak and intermittent, and her temperature 99° in the morning and 101°+ in the evening I did not think her case a favorable one and was loth to operate I had had a series of eighteen ovarian operations without a death, and I was reluctant to spoil my record, but the patient and her son-in-law were anxious to take the chances-if she had any chance, and I agreed to operate if the Consulting Board of the hospital would divide the

After examination three days later by the Board

day, November 7, fixed as the time We feared she choice between chloroform and ether, as both her

kidneys and heart seemed equally affected

Ether was administered by Clover's inhaler, and although she was on the operating table nearly an tumor above the umbilicus only, was fluid The remainder of the mass was composed of a great numthe patient upon her side and actually bale her ab-The sac, fortunately, domen out with both hands I transfixed its stem, fied it on both sides and cut it contact found enlarged, flattened and very hard, above the and covered with warm carbolized towels navel, and imbedded in the folds of thinned out broad

ligament and parietal peritoneum While I was lifting this out Dr Bulkley, who was standing by the patient's head, reported that she was I heard several other physicians agree with him that it was useless to proceed, but I did proceed deliberately in the removal of the second reddened ovary I remembered Dr Gill Wylie's suggestion that hot water in the cavity overcame shock, and several pitcherfuls of distilled hot water into the abdomen, and she promptly rallied, her tongue was pulled forward and she had no more trouble baled out her abdomen again, closed the wound, aptaken no opium, as she has had no pain some stimulants and quinine and one purge bowels moved naturally on the seventh day delighted at this, as I had injured an intestine slightly she was first tapped she was much prostrated by compressing a fold of it in a pressure forceps applied to a bleeding point in the omentum I discov- months bruised No harm has resulted temperature are now normal Tumor weighed 54 lbs

children and has had several miscarriages, first noat Providence Hospital by Dr Frederick, of this Board of the hospital advised me to make an "excity Dr Lincoln saw the case in consultation with Dr F, and a diagnosis of ovarian tumor was made

Upon admission to the Hospital I found the abdowould die from the an esthetic, we had not much men very tender She was compelled to stay in bed three days from the effects of my examination and took morphine to allay pain. Her pulse ran from 94 to 112, and her temperature remained constantly above 100° After treating her for about ten days I hour she only took about 2 ounces That part of saw that she was getting no better and determined to Accordoperate as the best way of affording relief ingly, on Monday last I opened the abdomen, and ber of cysts containing fluid too thick to run through | found a general peritonitis everywhere throughout a large trocar, and it became necessary to turn the cavity. It was impossible to separate the peritoneum from the cyst, therefore, after making a slight puncture with the point of a scalpel, I pushed a large had few adhesions When the running mass was trocar through to the peritoneum and cyst wall and turned out of the abdomen and the pedicle reached let out about a gallon of dirty brownish-black fluid it was at once compressed by strong forceps and the With my finger-tips I finally succeeded in separating tumor cut away The uterus had projected from it a little of the peritoneum, and gradually the whole of a fibroid growth with a long pedicle about the size it was peeled off The omentum and intestines were of a hen's egg, this was too tempting to leave, and also glued to every portion of it where they had The omental adhesions were so general I then searched for the other ovary, which I that a large mass of it was withdrawn from the cavity this had finally to be cut off to arrest the bleeding Numerous other points were ligated There was a general oozing from everywhere in the cavity, and after the removal of the other ovary, which I found to be cystic, I poured into the cavity a number of pitcherfuls of hot water until it came out but slightly I then put in a drainage-tube and sewed

Her pulse is now 70, and temp 99 40, being less as this cavity was sadly in need of the cleansing as to-day than before the operation, and I believe the well as the heating effects of water, I at once poured patient will recover No more fluid coming through

the tube, it was removed this morning

up the wound

Case 3 -Mrs H, æt 67, widow, mother of sev-I eral children, came to the charity ward of the Providence Hospital about ten days ago Her abdomen plied the dressings and put her to bed The doctors was very large and she had sprung a leak on her way all looked sorry for me and said of course she would up to the hospital. She had been tapped a week die-but she hasn't died and is doing very well to day, before coming The puncture had opened, and for which is the eighteenth since the operation. She has three days she kept the nurses busy changing cloths Has had and beds She stated that the tumor began to en-Her large and to trouble her about two years ago, but I was thought it had been growing at least six years When was tapped again in two months, and again in two For the past year the tapping has been reered this when I removed the forceps, and had Dr | peated every two weeks, so that in all she has been Cuthbert hold it at least five minutes in his fingers to tapped thirty-seven times Neverless than a bucketdetermine the extent of injury When everything ful was drawn away, and frequently more, and countelse was finished I again examined it and decided to ing a bucket at 10 quarts, we would have 370 quarts, drop it back without doing anything, as it was only or 740 pints, so that I could say that she has lost Her pulse and about 800 pounds of fluid within two years

She applied to a distinguished obstetrician a year Case 2 - Mrs Q, et 35, Irish, mother of five ago for a diagnosis and desired an operation, but was told that she had enlargement of the liver and dropsy, ticed a tumor five months ago She was sent to me and that nothing could be done The Consulting

ploratory laparotomy with power to act "

Immediately after the operation on case No 2 just Mrs Q had been attended by Dr F for an attack reported, I had her etherized with Clover's inhaler of pelvic inflammation quite recently, and the last and put on the operating table. The usual incision two months the patient had been suffering from was made as for ovariotomy, and a cystic growth dispersionitis

he multilocular and colloid. Many cysts were opened stones very strong in my mind. As the severe prun and a bucketful of fluid finally drained away. The tus cutaneus drove the patient almost to distraction, opening had to be enlarged up to the navel, and after and as she had lost all faith in medicine, she asked much manipulation and traction an immense semi- me whether an operation might not afford some re solid mass was delivered which was estimated to lief, or at least end her misery in some other way I weigh at least 20 lbs inches broad, and had to be ligated in four places under the forceps, which had been applied to enable stones me to cut away the great mass which was so difficult The cavity was then thoroughly cleansed, the wound was closed with a dozen silk sutures, and the old lady put into bed She rallied well, and this evening was very bright and feels perfectly certain that she will get well, and is passing wind and water Pulse and temp under 1001 normally

OPERATION FOR GALL-STONES CONGENITAL ABSENCE OF GALL-BLADDER DEATH

BY M STAMM, M D, סו ווו וס וד, מוווס

I he following case, although it terminated fatally, still. I think, presents some interest from a pathological as well as surgical standpoint. Congenital absence of the gall-bladder has been found in a few postmortem cases, no mention, however, has been made. to my knowledge, of the presence of gall-stones in the bile ducts under such circumstances. I also think that no such a case has been operated upon, at least not reported

Mrs L, age 63 years, has for the last eight years been suffering from severe paroxysmal pain in the epigastric region, coming on almost regularly after few drops of a milky fluid escaped and then I struck About two years ago she called at my office and, as she located the pain over the gall-bladder, and told me that it was at times followed by slight icterus, I made a diagnosis of the presence of gall stones I prescribed for her with a view to such a condition but, as all medication at the hands of other physicians had hitherto proved without effect, she gave my medicine only a very short trial and, of course, with similar dissatisfaction About the end of October, 1887, she fell from a chair, striking against her stomach and causing very severe pain over that region, which, however, lessened consider ably in a few days An intense icterus meanwhile four silver sutures broke during the abdominal closure, made its appearance, combined with severe itching, especially at night, so that it deprived her very much the peritoneum, I became rather partial to braided of her sleep Her appetite was very poor, bowels moved once a day or every other day, stools were grayish-white, resembling putty in color and consistency Her urine was free from albumen, but rich in biliary (Chloroform test) Her liver was coloring matter enlarged, especially the left lobe, but no enlarged gall-bladder could be felt Her history, however, before the accident, the intense icterus, and a pinch ing sensation in the region of the gall-bladder made the suspicion of mechanical obstruction by gall-

The pedicle was about 4 told her that we might make an exploratory incision and if feasible we would attempt to remove the gall Though aware of the dangers of such an operation, the patient eagerly accepted this proposi The evening before the operation her temper ature was 991/2, in the morning it was normal

Operation, Thursday, January 19, 1888 - Patient vomited repeatedly during the administration of ether, also during the operation I made a T-shaped in cision, the transverse cut parallel to and 11/2 in be low the ribs, the longitudinal cut externally along the rectus abdominis muscle to a little below the umbilicus Owing to the large amount of adipose tissue the incision had to be made of such a length The liver was found enlarged, principally its left lobe A careful search made for the gall-bladder, it, how ever, was conspicuous by its absence, and in its place was found a projection of the liver substance, but harder than the surrounding tissue On pressure I thought I could hear a grating sound Dr Caldwell, who was my nearest assistant, independently noticed the same fact On further examination I also found that this projection contained three solid nodules which suggested the idea of their being either gall The introduction of a needle stones or cancer even did not settle the question fully in our minds, and for a moment closure of the abdomen was sug After a moment's reflexion, however, we determined to cut down upon these nodules After I made an incision through about 5 cm of tissue a a stone 1 5 ccm in size and the shape of a die, after its removal two more were found, of equal size and shape I succeeded from this place in introducing a steel sound into the common bile duct and found no The stomach and duodenum further obstruction were adherent to the liver near the venous duct, but I made no attempt to separate the adhesions Under considerable difficulty the incision was closed by four silk sutures, and, as I was afraid of some oozing of bile or blood, I left some iodoform gauze at the place, after Miculicz's method (tobacco-pouch), as it perhaps might serve to indicate such an event As not at the place of twisting but where they pierced silk, and think I will use it altogether in the future

The patient rallied well from the operation, and for the first twenty-four hours did very well, with the exception that she did not pass over two ounces of On the second day, however, vomiting set urine in which gradually increased in frequency, so that on the third day it became incessant Although she swallowed nothing but ice pills she vomited up con siderable quantities of greenish-black material Her temperature never exceeded 100°, pulse and heartaction remained very feeble after the operation, the jaundiced condition of her skin and eyes seemed to Death ensued about sixty hours after the

¹ March 26, 1888—These three bad cases made good recoveries, action reand are alive and happy to day. I have now had a series of 24 ovarian operations without a death, the last being done in my private hospital clear up seven weeks ago

During the whole time the quantity of operation urine, voided through catheter, did not reach 3 ozs

Post-mortem examination was performed under Read before the Medical Society of the District of Columbia, protest, which made me resort to the pretence that I would remove the iodoform gauze left in for drainage and secure better closure of the wound, it therefore had to be done in a hurried manner The abplaces was already well adherent The bowels were streaked with a little bloody serum but no coagulation was found, except in the transverse cut between the muscles, it had no connection with the peritoneal cavity since the peritoneum under it was well closed The liver was considerably enlarged, somewhat pale and yellowish, and the wound made for the removal of the gall-stones was in a very good condition, well agglutinated There were no signs of bile or blood visible The adhesions between liver, stomach and duodenum could be easily separated There was absolutely not a vestige of the gall bladder to be The cavity where streaked with some biliary fluid the gall stones were located seemed to empty right seemed overlaid with a thick stratum of liver sub-The stomach and duodenum were filled was normal but somewhat pale small and quite brittle, of a grayish-red color kidney of normal size, very pale and showed signs of fatty degeneration. The heart was covered with the valves were intact but otherwise normal

REMARKS - From the clinical course and the conviction that the death of the patient could not directly be charged to the operation The fatty conthink had the case been operated upon a little earlier, abdominal wall and covered with plastic lymph or could the real condition have been foreseen, the shock to a patient whose blood had been poisoned with bile for nearly ten weeks, and the degenerated allow her to rally from it fully, Had I known of a similar case in about half the time, which would certainly influence the result very much As the wound iodoform gauze can be done away with in future

SARCOMA OF THE SUPRA-RENAL CAPSULES

November 23, 1887

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The specimen of tumor that I exhibit was redominal wound looked fresh, peritoneum in some moved, post mortem, from the body of a patient at the Government Hospital for the Insane tient was a male, aged 48 years, nativity, Germany, occupation, soldier, mental disease, chronic mania of thirteen years duration He was at one time violent, but for many years was quiet and did light work in the tin shop of the institution

He had for some time suffered from hæmorrhoids, and had lost much blood from this source and he frequently complained of pain in his right side, attributed by himself to "liver complaint," on account of this pain he wore his clothing very loose was anæmic and his skin was yellowish, but not dis-The bile ducts were dilated and patent, also tinctly jaundiced Death resulted from exhaustion and anæmia

The body was in a fair state of nutrition, the skin into the common duct, its walls were thick, and yellowish, slight prominence of the right hypochondriac region

The brain and its membranes were first examined, with about half a pint of greenish-black fluid Spleen but nothing of interest was revealed except slight Right Lidney was internal pachymeningitis, and extreme pallor of Left leptomeninges and brain

On thoracic and abdominal section the organs were found to be much displaced by a large oval a layer of fat, its walls were thin and very flabby, tumor, situated in the right hypochondriac region The lungs were very pale, beneath the right lobe of the liver The right lung was pushed upward, and the heart and left lung upward and toward the left, and the liver extended post mortem appearances of the case I gained the downward five inches below the ensiform cartilage, and across into the left hypochondrium

The tumor was adherent to the liver and to other dition of the heart and kidneys, with consecutive structures in the vicinity, except a small portion of suppression of urine, were more responsible for it I the anterior surface which was in contact with the

By careful dissection the tumor was removed with result would have been much better The operation the liver, and the specimen was photographed to lasted over two hours, and the bowels were eventrated show the relative size. The tumor when removed and kept in disinfected cloth during most of this from the liver weighed 97 1/4 oz, and measured in its time, this was certainly sufficient to produce a severe long axis, 85% inches, in its short axis 57% inches. It was completely encapsuled, regular in contour; soft, and fluctuated slightly It was cut through the condition of her heart and kidneys would hardly middle, and 91/2 oz of blood-tinged fluid escaped. The cut surface showed three concentrically arsimilar case that might have served me as a guide ranged nodules, which bulged slightly from the surthere would have been much less delay in the opera- face, and were mottled and streaked with blood The novelty of the condition made the diag. They appeared to be more recent than the other nosis between gall stones and cancer also somewhat parts of the tumor and probably were centres of The greater portion of the tumor was In other words, I could perform the operation in a brownish in color and very friable, the result of degrowth generative change

in the liver was well agglutinated and no signs of bile about 1/8 inch in thickness. The growth of the The capsule was tough and fibrous, and averaged or blood oozing were present, I think the strip of tumor had caused great atrophy of the right lobe of the liver, and the right border, where stretched over This case further teaches that we should not abstain the tumor, was thinned and fibrous The left lobe from an operation even if we cannot detect any seemed relatively enlarged. The weight of the liver was 651/2 oz, the tissue was bile stained, but

otherwise normal calculi of various sizes Some were imbedded in mains the walls, and to be cut out, and one of the larger granulations is impossible, and the patient slowly was firmly grown into the mouth of the duct, completely obstructing it The common duct was pervious

toward the left, and was firmly adherent to the and it should be restricted to such cases, and not capsuli of the tumor, by a fibrous band of the supra-renal body could be found, its place the natural cure of the empyema to be accomplished having been taken by the tumor The other organs, including the supra-renal capsuli of the left side, drainage operation. It is important to emphasize presented nothing worthy of note No secondary this point, lest the success attending it should tempt growth was found in any organ

The macroscopical as well as the microscopical save time appearances show the tumor to be a sarcoma mary sarcoma of the supra-renal body is more common than primary carcinoma, the latter is very rare, but secondary carcinoma is not uncommon comata of the supra renal bodies occasionally reach shall have reference to but three or four points great size Wilks and Movon record a case of sarcoma of both supra-renal capsules, in which the the cavity to be treated either before the operation tumors were the size of a feetal head at full term, and a primary melanotic sarcoma the size of an adult the fact that the operation must be specially planned head, was seen by Kussmaul. The tumor I exhibit for each case, for its success depends upon the was fully as large as an adult's head

Microscopical examination shows the tumor to be being removed. It is not a matter of removing a of the large celled round celled type, with a slight tendency toward alveolar arrangement in some parts I hough the large round cells are most numerous, all shapes and sizes may be seen, and a distinct intercellular reticulum is present Small bands of spindleshaped cells and delicate connective tissue run through and divide the cells into imperfect alveoli Blood-vessels are numerous in the recent portions, and are seen to have imperfect walls The brownish portion shows degeneration of the cells, but the same general structure Though no proper glandular structure can be found, the sarcomatous cells have wonderfully preserved the shape and general character of the cells of the supra-renal body Fields may be found which admirably show this curious tendency of sarcomata, to reproduce the characteristics of the mother-tissue

MEDICAL PROGRESS.

ESTLANDER'S OPERATION, ON THORACOPLASTY-MR A PEARCE GOULD, in a paper in which he Thoracoplasty must be records four cases, says clearly distinguished from the much simpler procedure of removal of a small portion of one rib for It is, as its name signifies, a purposes of drainage plastic" operation of empyema which refuse to heal in spite of long-The comcontinued free drainage of their cavities pressed lung has expanded to the full extent possible to it, the mediastinum has been displaced, the diaphragm has risen, and the chest wall has fallen in

International Encyclopædia of Surgery, vol v, page 1087

2 Cornil and Ranvier, page 601

The gall bladder contained 155 until the ribs are in contact, and yet a cavity re-To occlude such a cavity by a growth of advances to the grave, worn out by the continued suppuration, or is more suddenly carried off by acute tuberculosis or cerebral abscess It is to save The right kidney was displaced downward and these lives that Estlander devised this operation, No trace undertaken until ample time has been allowed for -a cure that most often results from a well devised the surgeon to perform the operation merely to The severity of the operation is such that it is only justifiable when it is plain that it is demanded to save life

As to the operation itself, I need add but few Sar- words to the descriptions already given, and these And the first is the necessity for carefully exploring or as a first step in it. This necessity arises from whole of the unyielding bony boundary of the cavity certain length of a certain number of ribs, but all the ribs lying in the wall of the empyema must be The surgeon should therefore first of all excised determine the vertical and the antero-posterior extent of the cavity The best way of doing this is by the finger, and I prefer, first of all, to enlarge the fistulous opening until the finger can be freely passed in to explore the cavity, but of course much information can be obtained by intelligent probing The ribs to be removed have generally been exposed by raising a flap of the soft parts over them, and Mr Godlee in his valuable Brompton Lectures advo cates that plan I have not found this necessary, a single vertical incision is all that is required Raising a flap makes a more extensive wound, but another and perhaps more grave objection to it is that it is often impossible to decide before hand ex actly how far the cavity extends in all directions, and therefore how large the flap should be I strongly recommend a single vertical excision through the skin and muscles in preference to raising a flap To excise a rib, the periosteum should be separated all round by a respatory, and if a long length has to be removed, it is best to cut it away in two or If the cavity extends far back even three pieces toward the spine, it will be found convenient, after removing the front portion of the rib in the usual way, to remove the posterior part from the inside, peeling the thickened pleura off the bone, and apply-We are all familiar with cases ing the cutting forceps from within the chest, this simplifies the operation, and disturbs the soft parts less than the other plan Should the cavity reach high up, the second rib may be safely removed, but of course the first rib must not be touched owing to its close relation with the subclavian vessels I would here again lay stress upon the necessity of carefully removing all the bone in the outer wall of

the empyemic cavity, so that only a soft and easily severe cases a drain or two was inserted must the bone be fully removed Lining the ribs, in applied an inch in thickness, is found, which is almost as un- with large scalp flaps, two healed primarily eration may be considerable cut, and they bleed freely If any arteries spurt, they should be sized in compression forceps with a weak corrosive sublimate solution Thoracoplasty is a much more sespecial incision vere operation than the mere drainage of an empyema, the shock produced is considerable, and great cases of chronic fistulous empyema are to be treated by thoracoplasty, for its danger to life must negative at when there is serious visceral disease and the vital powers are at a very low ebb

The results of the operation may be either partial or complete success In some cases a sinus remains behind, but this is a much smaller surface than previously suppurated, and the condition of the patient is to that extent improved Such a result, however, cannot be called very satisfactory, it is, I believe, due to the operation not having been sufficiently complete, some part of the bounding wall of the cavity having been left rigid and unyielding I believe full success is only to be anticipated where all physical obstacles to the entire obliteration of the cavity have been removed The cases of com plete success will become more frequent as the op eration is more completely executed Such patients have a great deformity of the chest, but the cessation of all discharge is quickly followed by great improvement in the general health It is to be hoped that the cases requiring thoracoplasty will beefficiently carried out But for a small residue of very chronic and otherwise incurable cases of fistuthoroughly carried out, offers a good chance of cure When once the necessity for operation is recognized, the sooner it is carried out the better, for marked severity of the injury exhaustion or serious visceral disease renders the operation too dangerous to be recommended -Lancet, Feb 11, 1888

Wounds of the Head -S Ginger discusses the cases of traumatism of the head treated in the clinic of Czerny from 1877 to 1884, inclusive were ninety cases of wounds of the soft parts ing with alcohol or turpentine, followed by washing but not the motor centres were affected

Iodoform collapsing wall of soft tissues is left And not only was then dusted on the wound and a Lister dressing It is noted of forty-eight incised wounds these cases, dense cicatricial tissue, half an inch or thirty-three united by primary union Of six wounds yielding as bone, it, too, must entirely be cut away favorable cases recovery from these wounds was The hæmorrhage attending the op-| completed in four to eight days If the secretions If care is taken in of the wound were profuse the Lister dressing was peeling off the pericostal membrane, the intercostal discarded and open treatment with salicylic solution vessels should escape injury, but many branches are or 2 per cent acetate of aluminum was adopted Erysipelas delayed recovery in six cases, proving For fatal in one In twenty-three cases of fractures of the rest, it is best to complete the operation as the bones of the cranium, the parietal, frontal, and quickly as possible, and then thoroughly irrigate temporal regions in the order named were the seat The of traumatism The patients were brought to the skin wound should be closed with sutures, and, if hospital in a state of unconsciousness which lasted necessary, drainage may be secured by means of a a variable length of time. In lesions of the brain substance an approximate localization is possible in most cases

The brain and meninges are favorable seats for care is necessary in the after-treatment. Not all the development of various forms of inflammation (meningitis, encephalitis, pyemia), and after years an apparent recovery may be complicated by the development of a series of symptoms due to brain abscess Such abscesses are fatal in the majority of Neuroses and psychoses may develop and the more so if the local lesion in the brain takes the form of trauma of a centre with formation of a cicatricial tissue Frequent congestions, intolerance of alcoholics, localized headaches, dizziness, paræsthesias, functional disturbance of the senses, all forebode such complication of a beginning psychosis In extensive disturbance of the brain substance and large extravasation, deep coma and complete absence of reaction was present There was also a reactionless pupil, irregular frequent pulse, increased temperature, shallow frequent respiration, in some cases of Cheyne Stokes' character, death occurred in these cases from cardiac failure of cedema of the lung The treatment was a strictly antiseptic one and narcotics, etc, were used symptomatically, but it is to be remarked that where trephining was necessary this was carried out with the mallet, chisel, knife and come fewer and fewer as the surgical treatment of scissors, seldom with the trephine. In addition to empyema is resorted to more early and is more trephining for splintered fractures, abscess and depressions, the indications laid down by von Bergmann and Wiesmann are recognized in this clinic dous empyema, Estlander's operation, when very fourteen cases of trephining recovery resulted in In those cases which proved fatal after nine cases trephining the fatal issue was due rather to the The operation rather retarded the fatal issue Most favorable and rapid was the recovery of those fractures where the brain substance remained uncompromised The less the extent of the bony lesion the more rapid and complete the recovery Where the motor centres were affected by the traumatism, functional nervous dis-There turbances resulted which may, after a period, have retrogressed The prognosis is best in the first class The treatment consisted in shaving the head, cleans of cases, and reserved where the brain substance, with 2 per cent to 5 per cent solution of carbolic especially a certain reserve in prognosis should be acid, or a r per cent solution of sublimate The the rule, for here, though extensive lesions may end wound was then sutured with silk or catgut. In in immediate recovery, yet the statistics show that such patients in later life form a prominent quota of reference is made to seven previously recorded those suffering psychoses. In compound fractures cases of permeal incision of deep perirectal abscess. of the skull, therefore, lesions of the absolute cortical and reports are given of three recent instances of centres give a more unfavorable prognosis than similar treatment in the practice of Professor Bruns lesions of the relative cortical centres has not improved after five or six months after com- four cases urethro perineal fistula had formed in pound fractures of the skull, they may be considered consequence of rupture of the abscess into the possibility of abscess must be considered. In all in- In each of these instances the fistula retarded the injuries of the head, moreover, where the brain sub- healing of the abscess, but at last was completely stance is injured psychoses and neuroses may develop closed. In not a single case was the incision intosubsequently Strict antisepsis should be followed in the perineum followed by rupture of the abscess in all these cases tures at the base of the skull, three proved fatal The collected cases in which the deep abscess was prognosis is favorable in those cases where the brain symptoms are slight and short in duration most frequent disturbances of hearing and vision improve if the tympanum alone has been ruptured in the middle line of the perineum or in a line and the labyrinth in the one case and the optic nerve in the other have not been compromised Paralyses are permanent which do not recur to the should correspond with that of the abecess. After normal condition or show signs of improvement within a few months quent brain abscess or psychoses must be concars with antiseptic solutions is imperative The antiseptic tamponade of the ear is advocated obscure concussions of the brain (Beck) where the lesion of the brain substance is slight capillary apoplexia and absorbable exudate, the prognosis is good as regards the immediate recovery of the pa-It is a guarded prognosis, however, when future psychical complications are in question-Deutsch Leitsch f Chir , Bd xxvi, Hft 3 and 4

SURGICAL TREATMENT OF DEEP-SEATED PERI-RICTAL ABSCESS - In Professor Bruns' Butrage zur Klin Chir, Band III, Hest 2, DR HEINRICH Zeller, of Tubingen, argues that perineal incision is the most rational and the proper method of opening a perirectal abscess situated above the levatores ani and coccygei muscles, and presenting a prominence and fluctuation within the rectum without forming any appreciable projection on the surface of the perineum. The perineal has, it is urged, many advantages over the rectal incision The former permits a strict application of the antiseptic method, which, if the abscess be opened by the rectum, must be practiced under very unfavorable conditions the perineal incision the abscess is opened at its deepest part, and so a free and ready discharge of the pus is favored The opening in the perineum can always be made to a sufficient extent, whilst when made in the rectum it will necessarily be limited on account of the risk of bleeding, and therefore is liable to be insufficient for the purpose The permeal incision of draining the abscess guards against further rupture of the abscess in other directions, and should an urethro perineal fistula be formed, this can be more easily dealt with Moreover, the perithan an urethro rectal fistula venting a communication between the abscess and main consideration being the frequent irrigation the interior of the interior the interior of the intestine

If paralysis In those ten cases the patients all recovered In In all extensive compound fractures the urethra before the perineal incision had been made Author records twelve cases of frac- any other direction Of the subjects of thirteen opened by the rectum two died-one from purulent The infection, the other from perforative peritonitis. The perineal incision has been made in some cases. parallel to this, in others, in the line of the incision for lateral lithotomy, but, as a rule, its situation the skin has been divided, the surgeon should make The possibilities of subsc- his way to the abscess more by the use of blunt instruments than of the knife, and every bleeding ves The frequent douching of the nose and sel must be secured The depth of the wound, when the abscess has been reached, varies very In much in different cases In each of the three cases reported by the author it was about four inches, in some cases, especially when the abscess has de-pelvis formed by the levatores ani and the coccygei has not been perforated, the surgeon must work to a depth of at least one inch and a quarter If the abscess be large, it will usually be opened without any difficulty If the incision be made at an early stage, and when the collection is small, the operation may be facilitated by the introduction of the forefinger of the surgeon's left hand into the rectum, so as to press down the abscess towards the surface of the perineum, care being taken not to carry the The relative position of knife too near to the gut the urethra to the abscess may be indicated by pass-After the discharge of the purulent ing a catheter contents, the surgeon should pass his finger into the cavity of the abscess, in order to search for any secondary cavities or prolongations should then be washed out with some antiseptic fluid, and, after the introduction of a drain-tube, the seat of the operation should be carefully covered by a dressing of iodoform gauze - London Medical Recorder, Feb 20, 1888

TREAMENT OF DIPHTHERIA —An elaborate paper on the management of diphtheria by DR G GUELPA, is concluded in the issue of October 30, of Bulletin, Gén de Thérap The special point brought forward by the author 15 "irrigation, the most frequent possible" He has employed a solution of the perchloride of iron for this purpose, chiefly from habit, but other solutions—of lime, carbolic acid, and boric acid may, he admits, be quite as efficient-may be more efficient—for the agent used is quite secondary, the In this contribution Dr. Guelpa advocates the early and persistent, and almost continuous application to the parts threatened with an extension of the diphtheritic process.

Cauterizations are negatived Perchloride of iron solutions, 5 to 10 per 1000 in strength, have proved most successful in a long series of cases of different periods The irrigations are practiced every quarter of an hour during the day, and every half hour at night, in the milder cases with moderate force through the fauces and nares, as is done with the nasal douche, but when the resistance to the passage of the fluid requires it, the hand-ball should be used to pump the fluid through When irrigation is practiced early and efficiently, it is comparatively rare to find the disease spreading to neighboring parts It is relatively easy to bear by the patient, and to apply by the attendants

There are no difficulties in the way medicament that determines the result, the practitioner has a wide choice of materials, and, hence, recommending them those objecting to the disagreeable iron chloride, can employ other medicaments Probably, those agents having a solvent action, as papain, lactic acid, lime, etc, can be used with the expectation of the best results It is the early, frequent, and copious irrigation that accomplishes the important curative results obtained by Dr Guelpa's method -American Journal of the Medical Sciences, January, 1888

INFLUENCE OF OPESITY IN YOUNG WOMEN UPON THE MENSTRUAL AND REPRODUCTIVE FUNCTIONS -In a paper on this subject DR ANDREW F CURRIER says It is somewhat surprising that the law which evidently obtains in this matter has been so gener- News, Feb 18, 1888 ally overlooked by modern and contemporary observers at least I have found very little reference to it in recent literature in the following terms

I A woman under 30 years of age who bears and suckles them, prematurely reaches the limit of stronger than that of cocaine phenomena of the climacteric supervening who become obese after so frequent pregnancies

2 A woman under 30 years of age who becomes obese, from whatever cause, will, as a result, be subwhich I have proposed as a synonym for scanty menstruation may previously have been nearly or twenty minutes (or half an hour) If such patients be married sterility flection during a not inconsiderable experience have convinced me of its existence

tem of treatment could change it It is the order For the others a properly regulated diet is of primary importance, hydrocarbons being eschewed in favor of albuminoids Alcohol in any form is contraindicated. Suitable exercise must be insisted upon, either by the performance of the active outies of household life or a suitably arranged course of gymnastics, including massage Worthington recommends the systematic use of the waters of Vichy, Marienbad, Carlsbad, or Ems I am profoundly impressed with the value of electricity for this condition both in the form of general faradization and the intrauterine use of the faradic current Not only will the muscular tone of the uterus be improved by this means, but the entire pelvic circulation will be favorably affected I have seen come As Dr Guelpa submits many cases illustrating the cases which seemed to be benefited by the use of utility of the method, there can be little doubt of its astringents and stimulants to the interior of the As it luterus, also by moderate dilatation, but the same is the irrigation rather than the character of the means have also been successful in exciting violent inflammation, which leads me to be cautious in

The systematic use of laxatives will be required in almost every case, and we should look well to the condition of the heart, using suitable tonics as they are indicated The internal use of iodide and its compounds has not been attended with the success which its early advocates would lead one to expect Worthington approves highly of hydrotherapy, especially sea-bathing Warm baths are, of course, As Worthington has suggested, it is to be avoided not improbable that one who succeeds in relieving a patient of her obesity will, at the same time, cure her sterility, even without intrauterine medication, and this opinion is shared by Roubaud -Medical

ERYTHROPHLŒIN —This African product has been That law may be formulated the subject of a lively debate in the Berliner Medicinische Gesellschaft (Berliner Klin Wochenschrift, 1888, March 5, also February 27) DR LEWIN asfour, five, six, or more children in rapid succession serted that it possessed a local anæsthetic action far Professor Liebreich her physical powers as a reproductive animal, the replied that the sample examined by Dr Lewin was This ap- in reality a snake poison, and that the rosy red colplies to the average woman under present conditions oration produced by evaporation with sulphuric acid of civilization, and, in a marked degree, to those is shown also by snake poison, and even by dried egg or serum albumen Dr Scholer read a paper at the last meeting of the above Society, in which he confirms Lewin's results ject to amenorrhœa, or oligomenorrhœa (a term tion of 1/5 per cent strength, when dropped into the An erythrophlæin solueye gave rise to a good deal of irritation at first, but menstruation) and usually to dysmenorrhoa, though perfect insensibility of the cornea ensued in about The pupil was not affected and intra-ocular pressure was lowered, will be the rule This law, like most other laws, has but a slight degree of hyperæmia of the conjunctiva more or fewer exceptions, but observation and re- persisted for a long time, and the subject of experiment complained of a feeling of weight in the upper The prognosis in many of these cases may be interference phenomena—for example, colored rings considered exceedingly good, excluding, of course, On the other hand, Dr Loewenhardt, of Breslau, lid, a sensation as of a veil before the eyes, and of those in which the climacteric has followed extraor- writes in the Berliner Klin Hochenschrift, (March 5), dinary fruitfulness For the latter the condition of to the effect that he obtained no an esthesia, but a consterility is permanent, and I doubt whether any sys-Isiderable degree of hyperæsthesia, after subcutaneous injection in animals, and found that he could recently performed laparotomy in a case of m-Dr Epstein, of Nurneasily produce sloughing berg, in an original communication to the Centralb f Kim Med (March 3), finds that erythrophicum the ileo-caecal valve. The stone was removed by a has only a slight local an esthetic action when subcutaneously injected, and that a good deal of pain is the wound closed with a double row of fine silk caused by it. So far then this last observer is opposed to Dr Lewin, who said in his communications to the Berliner Med Gesellschaft that erythrophlæin had a marvellous power of producing anæsthesia The difference of opinion evolved by this statement has had the effect of bringing a number of experi ments upon the field of action and no doubt precise results will soon be afforded from uniform samples of erythrophicum - British Medical Journal, March 10, 1888

ACUTE IDIOPATHIC MYOSIFIS -DR E WAITHER, gives a collection of cases of acute suppurative myositis (idiopathic) and a consideration of the He classes it among the pathology of the affection severer inflammatory affections, peritonitis, osteomyelitis acuta spontanea, pseudo erysipel It is a disease of my cotic origin, and, as investigations of Rosenbach show, is due to the agency of the staphy- Recorder, Feb 20, 1888 lococcus aureus and albus, and streptococci pyo-The avenue of penetration of the infectious genes element into the muscle is not clear in all cases, but there are conditions as severe muscular exertion, contusions, etc , which predispose these structures to the reception of these micro-organisms Dull, severe, increasing pain, inability to use the affected muscle, swelling of the muscle and extreme tension One or many are among the principal symptoms The prognosis differs, in some abscesses may form cases threatening the life of the patient Of nineteen cases collated eight ended fatally If the pa tient recovers and the abscess has not been large the use of the affected muscle is gradually recovered The most frequent complications were erysipelas The author brings forand tuberculous of the lung ward nothing new as to pathology of the affection, quoting largely from Rosenbach The treatment is quoting largely from Rosenbach an antiseptic treatment of suppurating areas -Zentschr f Chn , Bd xxv, Hit 3 - Annals of Surgery, March, 1888

COLD OF THE HEART —LUTON says that a gorged condition of the heart is the salient symptom of an impression a frigore, which is manifested anatomically by inflammatory and plastic lesions clinical symptoms are painful spots over the chest, precordial anxiety, a sense of constriction, and a The sequel of this condition dry, fatiguing cough is a muco-purulent catarrh of the bronchial tubes, which corresponds to the crisis of this indefinite ailment, which is then called a "cold" The effect of digitalis in aborting these attacks before they have reached this stage, shows clearly that the cardiac muscle is at fault -London Medical Recorder, Feb 20, 1888

LAPAROTOMY FOR INTESTINAL OBSTRUCTION DUE TO GALL-STONE - MR CHARLES STONHAM has

testinal obstruction, and found a gall-stone firmly impacted in the ileum, about twenty inches above longitudinal incision about one inch in length, and There was recent peritonitis of the gut sutures above the stone, but none below The patient, a lady aged 66, who was very prostrate at the time of the operation, died fifteen hours later Symptoms. of obstruction had lasted forty eight hours -Lancet, Feb 11, 1888

Perchloride of Iron —To prepare a reliablesoluble saccharide of iron M TRAUB recommends Dissolve 100 grammes of the following process perchloride of iron in 500 grammes of water. In another vessel dissolve 85 grammes of bicarbonate of sodium in 500 grammes of water Mix the solutions, collect and dry the precipitate which is then ground down with 100 grammes of powdered sugar, previously mixed with 11/2 grammes of caustic soda. dissolved in three grammes of water The mixture is dried in a stove and powdered -London Medical

ACTION OF BOILING WATER ON TYPHOID BACILLE. -WILCHUR, of St Petersburg, has found that when a volume of boiling water equal to that of a gelatine culture of typhoid bacilli is used on the culture the bacilli are only partly destroyed, and that when the volume of water is double that of the culture all Experiments on the dejecta the bacilli are killed of typhoid patients showed that when four times the volume of water was added to the dejecta, the ba-It seems, then, that cilli were invariably destroyed this is an easy and certain method of disinfecting typhoid stools

SALICYLATE OF MAGNESIUM IN TYPHOID FEVER HUCHARD says that this salt is easily prepared by dissolving salicylic acid in distilled water, and saturating the boiling solution with carbonate of magnesium, when the salt forms in colorless and odorless crystalline needles, readily soluble in water and alcohol Huchard gives the salt in doses of gr 40 to 80 a day-It is not contraindicated by diarrhœa, since even in It seems to large doses it is but slightly lavative act as an antipyretic and as as intestinal antiseptic. -Rev Gen de Clin et de Thérap, Jan 26, 1888

MARSON'S NEW TEST FOR SUGAR IN URINE, Dissolve to centigrammes of pure ferrous sulphate in 8 cubic centimetres of urine by the aid of warmth, add 25 centigrammes of caustic potash, A dark green precipitate forms if sugar be present, and the supernatant liquid is reddish brown or black, according to the amount of sugar-When sugar is absent, the precipitate is greenishbrown in color, and the liquid is colorless -London Medical Recorder, Feb 20, 1888

THE

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession Letters written for publication of containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published All com munications in regard to editorial work should be addressed to the Editor

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SATURDAY, MARCH 31, 1888

OPERATION FOR ABSCESS OF THE SPLEEN

It is seldom that affections of the spleen comeinto the hands of the surgeon, and on this account, as well as its somewhat remarkable character, a case of abscess of the spleen, operated on by DR CARL LAUENSTEIN, of Hamburg, and reported in the Deutsche medicinische Wochenschrift, No 51, 1887, is very interesting, and so far as we can ascertain no similar case has been reported in medical literature

The patient operated on was a coppersmith, 23 years of age, who was admitted to the medical wards of the Seaman's Hospital of Hamburg on September 17, with a diagnosis of typhoid fever, after he had been sick 14 days He was in a febrile condition, pulse 96, tongue red at the edges and white in the middle, had been suffering with diarrhœa, and the abdomen was somewhat tympanitic Splenic dulness was much increased, extending in the axillary line from the lower border of the fifth rib forwards and downwards to the free border of the ribs, and backwards to within a finger's breadth of the spinal col-From the middle line forwards it encroached upon the region of normal cardiac dulness, and over the somewhat enlarged dull region of the left lobe of The spleen was not palpable through the abdominal wall, since the patient did not use the diaphragm in respiration, and during inspiration there was some retraction of the epigastric region instead of abdominal expansion The patient complained of pain in the splenic region, though there was no sensitiveness on pressure There was no pul-

tion of the diaphragm on the left side, and some friction sounds at the boundary of the base of the left lung

Under a fluid diet, wine and hydrochloric acid internally, and the pack externally the patient's condi-The temperature tion was not materially changed fell in the morning, and in the evening rose to 39°C Three days after entering the hospital the patient had a severe chill, with a rise in temperature to 40° C, very small pulse, 128, and cyanotic lips He then complained of increased pain in the splenic region, the dulness of which was not increased forwards and downwards, but above and behind was markedly in-The dulness reached two fingers' breadth above the angle of the scapula, and had an extent of 35 by 18 cm With the exception of the fixed condition of the diaphragm, and the marked friction sound at the lower border of the left lung, there was no abnormal condition of the thorax On the day after the chill there was severe collapse, with a fall of temperature to 35 4°, small pulse of 72, and coldness of the extremities, from which the patient was aroused only by the use of stimulants and heat. As the pain in the splenic region continued after the chill, Lauenstein concluded that there was a purulent collection in the spleen, and on the fifth day after the patient entered the hospital he operated

After the patient was anæsthetized the needle of the Dieulafoy's aspirator was inserted in the eighth interspace in the axillary line, at the point of spontaneous pain, and about the middle of the anterior portion of splenic dulness The needle was pushed perpendicularly downwards about two fingers' breadth, but no fluid was obtained till it was carefully withdrawn about 2 cm, when a small quantity of chocolate-colored fluid escaped, which had a penetrating fœtid odor The needle was kept in place and, in order to empty the abscess thoroughly, about 10 cm of the ninth rib were resected, this rib being selected in order to avoid wounding the pleura order to avoid hæmorrhage the there o-cautery was used to cut down under the resected rib, and parallel Though the spleen was lying close to the diaphragm it was not adherent to it at the point of in-After the cautery was carried down about 2 cm into the spleen a chocolate-colored fluid welled up by the side of the cautery The incision in the spleen was now widened to the extent of the resection of the rib, and the borders of this incision brought up against and fixed to the wall of the thorax by means of hooks

The finger introduced into the wound showed the monary abnormality, except an unusually high posi- presence of a cavity, about as large as a goose egg,

the walls of which were friable, and in which several canula in the abscess until the opening was comloose fragments of tissue were found, that were removed with forceps The cavity was washed out with cold salicylic acid solution, and then tamponed with iodoform gauze, the whole wound was then covered with an antiseptic dressing scopic examination of the pus showed that it was composed of pus cells mixed with some red corpus cles, fatty acid crystals, and hæmatoidin crystals was impossible to find either pus cocci or typhoid breilli in dried preparations of the pus The dressing was renewed on the fifth day after the operation, when it was seen that the spleen was adherent to the thoracic wall and to the diaphragm Splenic dulness was at this time much lessened For several days after the operation the temperature was about normal, but then rose, and the subsequent course of the illness was that of a case of typhoid fever On October 11 the patient was entirely free of fever, but had the characteristic paleness and emaciation of typhoid fever, as well as the ravenous appetite of the convalescent At the middle of October the cavity in the spleen had granulated well, and the wound in the thorax was almost cicatrized When the patient left the hospital on November 5 the area of splenic dulness was about 16×11 cm

It is likely that this abscess was embolic, and it is known that embolic abscesses are most frequent in the course of the infectious diseases Without operation the course of such an abscess could scarcely be otherwise than to a fatal termination from rupture and purulent peritonitis, or rupture into the Lauenstein thinks it probable that pleural cavity in his case the abscess was one arising in the course Clearly the most rational and of typhoid fever best surgical treatment was that adopted by Lauen-For the treatment of such abscesses we must draw conclusions from the results of treatment of abscesses in other internal organs, especially in The best results in abscess of the liver have been obtained, not by punction, but by free antiseptic incision, according to Lauenstein, who gives the mortality of the Lindermann-Landau and Volkmann operations as 47 per cent It is true that Barbieri and Parzewski cured two cases of abscess of the spleen by puncture and aspiration, but in both these cases the splenic enlargement and the abscess was accessible through the abdominal wall, which was not the case in Lauenstein's case important steps in the operation reported must be 1 Puncture before the incision, by which the danger of an escape of the putrid contents from the over full cavity was avoided, 2 Leaving the

pleted, so that it served as a guide for the farther Finally, it must be regarded as a wise opening provision of nature that fixed the diaphragm so completely during the progress of the case, and before the operation Had the diaphragm continued its work nothing is more likely than that the abscess would have been ruptured, and the contents ex travasated So also, the circumscribed pleuritis at the base of the left lung was of no small considera tion, since it caused adhesion between the costal pleura and diaphragm, without which the operation, by opening the left pleural cavity, would have much complicated matters

I aunstein gives the following points in the diagnosis of abscess of the spleen, besides the presence of an infectious disease, the changes in temperature, rigors, etc 1 Enlargement of the area of dulness 2 Spontaneous painful sensations Inflammatory phenomena in the region of the spleen (basal pleuritis and fixed position of the diaphragm) As for fluctuation, this could be detected only in cases in which the enlargement was apparent below the free border of the ribs

COMMEMORATIVE MEDAL OF THE NINTH IN TERNATIONAL MEDICAL CONGRESS

We are pleased to announce to the subscribers interested that the dies for the "Commemorative Medal of the Ninth International Congress," have A beautiful specimen, in bronze, been completed struck from one of them is now before us It is fin ished in the best style known to the medalic art, and is also creditable to the Congress and the artist

The medal represents a group of five figures draped in classic costume, as shown in the seal of the Con gress, the chief figure of which is Æsculapius, the Greek physician, who is seated and prescribing for The mother of the child, who holds it in an infant The two other figures are men lap, is also seated standing, the one supporting himself upon a crutch, the other with a bandaged head, resting upon a staff The inscrip awaiting the advice of the physician tion or legend upon the face and around the medal is as follows. In a straight line beneath the group of figures just described, 15 "Washington, 1887" Above and surrounding the figures, reading from left to right around the margin, "International Medical Congress," reading from left to right and around the margin, "N S Davis, Pres, J B Hamilton, Sec Gen, E S F Arnold, Treas, J M Toner, Reg" On the obverse is a noble head of Washington,

encircling above it the words, "United States of America," and beneath it, "Founder of the Republic"

We take the liberty of stating on our own responsibility that the money subscribed for the medals has been entirely exhausted in their preparation, leaving nothing to pay postage on their delivery We would therefore respectfully suggest that each subscriber for a medal send to Dr J M Toner, 615 Louisiana Av, Washington, D C, 15 cents, in stamps, to pay the postage on his medal, and not allow Dr Toner, who has already spent so much time on the work, to advance the amount from his own pocket

PREVENTION OF DIPHTHERIA

Dear Sir - In your editorial of March 17, 1888, "Public Wealth vs Public Health," page 334, you refer to diphtheria as "a preventable disease" Will you not kindly publish the formulæ for preventing diphtheria in your next issue, and oblige A MEMBER

The writer of the editorial referred to in the above paragraph from our correspondent, used the word "preventable," as applied to diphtheria, in the same sense as it is used by nearly all writers on vital statistics and contagious and infectious diseases, i e, by assuming the practicability of preventing the development and diffusion of the specific infection from which the disease is supposed to originate sufficiently obvious from the tenor of the article itself Any disease is preventable in direct proportion to the correctness of our knowledge concerning its essential causes and of our ability to either prevent the development of those causes or to render the human system insensible to their effects Thus, small-pox as preventable either by avoiding contact with its contagion or by rendering the system insensible to its action by previous vaccination But diphtheria, erysipelas, cholera, yellow fever, and some other diseases, evidently depend upon specific infections developed outside of the human body, and capable of being introduced into it in connection with the air we inhale or the food and drink we take our formula for the prevention of diphtheria does not consist of drugs to be obtained at the apothecaries', but of an abundance of pure air, good water, wholesome food, clean soil, and a clean personality

Inhalations of CO2 in Dispnea -Dr Edward Weil, says La Semaine Medicale, of March 7, 1888, has used inhalations of carbonic acid gas to relieve and prevent paroxysms of dyspnœa and with favora-He thinks that the good effect is due ble results to the abolition of reflex sensibility of the pharynx

for from two to five minutes, once or twice a day, in quantities of from two to four litres When the inhalations are made during an attack the dyspnœa is cut short, and the patient breathes easily and com-When the gas is given between the atfortably tacks, inspiration becomes more free, and the attacks are prevented, or else diminished in frequency, intensity and duration

SMALL POY DECLINING AT SAN FRANCISCO —The weekly abstract of Sanitary Reports, from the office of the Supervising Surgeon-General of the U S Marine Hospital Service, for March 23, 1888, states that only 16 cases of small-pox, and one death, had been reported as occurring in San Francisco from the 1st to the 15th of March

The medical officers in charge of the Marine Hospital Service at Key West, reports no more cases of small-pox on that Island, under date of Mach 15, The disease is also reported as having disappeared entirely from Santiago de Cuba But it still lingers in Havanna, 29 deaths having taken place during the week ending March 10, 1888

THE CARTWRIGHT LECTURES of the Alumni Association of the College of Physicians and Surgeons, of New York, will be given on Thursday evenings, March 29, April 5, and April 12, at 8 30 P M, by Prof William H Welch, of the Johns Hopkins University on "The General Pathology of Fevers"

EXECUTION OF CRIMINALS -At a meeting of the New York Medico-Legal Society, on March 16, 1888, a committee reported on the best methods of executing criminals, giving preference to "death by the electric current" The report was adopted by the Society

THE DISTRICT MEDICAL SOCIETY OF CENTRAL ILLINOIS will hold its next regular meeting at Pana, Ill , April 24, 1888 An interesting programme of work is promised F B Haller, M D, Vandalia, President, J H Miller, M D, Oconee, Secretary

ASSOCIATION ITEMS

A Section of Rhinology and Laringology PROPOSED — To the members of the American Medical Association who are interested in Rhinology and Laryngology, I desire to give notice that it is and laryn. The patient is made to inhale the gas my intention to offer an amendment to the Constitution of the Association at the next annual meeting, To establish a separate Section of Rhinology and Laryngology in the Association, in other words to separate Rhinology and Laryngology from Ophthalmology and Otology Yours, etc,

CARI H VON KITIN

SOCIETY PROCEEDINGS.

CLINICAL SOCIETY OF MARYLAND

Stated Meeting, February 3, 1888 Dk WM H Wilch described the PATHOLOGICAL ANATOMY OF INFECTIOUS PLURO PNEUMONIA OF CATTLE

He said the subject was an interesting one aside from its pathology on account of the economic interest it bore to stock raisers and dairymen vails in this country extensively and large sums of money have been appropriated to stamp it out If it is not checked it is bound to cause greater loss It has doubtless existed from reas time goes on mote times but only in the last two centuries has its description been accurately carried on It prevails in this country chiefly in localities east of the Alle New York and Brooklyn representing one center and Baltimore another So far it has never gained a firm foothold west of the Alleghanies disease is a contagious one, not spontaneous so far as is known, and always due to infection The period of incubation varies from three weeks to three months The onset is and it may be as long as six months The animal begins to cough, its temperature becomes elevated, with loss of appetite, etc Often much can be determined by physical signs when practiced by experienced hands Sometimes these acute symptoms subside and the disease passes Again it may run a latent into a chronic state course and it is then not easily recognized disease is a fatal one with an average mortality vary The distining from 30 per cent to 50 per cent guishing feature in the normal anatomy of the lungs of cattle is the connective tissue around the lobules It is not abundant, but characterized by the looseness If the animal dies in the early stage of its meshes of the disease we find in the lung one or more foci of inflammation Sometimes the whole lung becomes affected The affected portion is consolidated, more or less of its elasticity is lost and it is friable pleura is always affected and in some cases a well-A cut section shows a marked pleurisy is observed Not only are the lobules variety of appearances affected, but the interstitial tissue also Some lobules may be red, some gray, others dark, etc, and moving The early stage through this are bands of tissue of the disease is marked by cedema, later it is red, The interand still later the appearance is gray lobular tissue appears as broad bands due to its infilare inflamed in the immediate vicinity of the inflamed tention to a method of suturing designed to be used

area and contain muco-pus and fibrin The microscope shows that the air cells are filled with the ordinary products of inflammation. In the interlobular tissue the lymph spaces are filled with large blocks of Emigration of white corpsucles fibrillated fibrin does not penetrate deep into the interior They are found to undergo coagulation-necrosis

As regards the termination of the disease there is no proof that the lung ever reaches again its normal Sequestra form in the areas of inflammation and fresh pleuro-pneumonia may set up from these The formation of these sequestra always takes place in the interlobular tissue and bands of tissue run into these which correspond to the bronchi and bloodvessels The sequestrum may disappear by invasion of granulation tissue from the outside and the exterior becomes peculiarly worm eaten in appearance There is no proof that the disease affects other organs than the lungs

The disease is infectious beyond all doubts A great many have described organisms and this is the most sensible hypothesis It has never been produced artificially The materie morbi as yet is open to investigation

During the course of his remarks Dr Welchillustrated the points he made with some very beautiful specimens of the disease in its different stages

DR PATTERSON, in response to an invitation from the members of the Society, said that he was unable to go into discussion very deeply because Prof Welch had brought out all of the points of interest pertaining to the disease in question He did not believe there was any way to eradicate it except by destroy The subject is such an important ing the animals one that National legislation should be directed to aid in its suppression

DR L McLane Tiffaney asked if the droppings from an infected herd would cause infection in other herds should they come in contact with it

DR WELCH said the disease may be transmitted without contact There is a singular insusceptibility to the disease in some cattle. An animal may be carried to a place and no disease develop He thinks too that it is necessary to have a National law to eradicate it National and State laws sometimes cooperate to that end, as in Maryland, for example Destruction of the animal is the only way to destroy

DR PATTERSON, in reply to a question, said that he had not experimented with the milk of animals affected with pleuro pneumonia and therefore he could not say whether the disease could be transmitted in that way or not One thing, however the milk does not secrete in the acute stages and therefore it does not get into the market Meat in the acute stage is dangerous

Stated Meeting, February 17, 1888

DR W P CHUNN, of Baltimore, read a paper on

A NEW SUTURE IN CÆSAREAN SECTION

The very short paper here presented is to call at-

to close the incisions made during Cesarean section details of the operation I have a suggestion to make inch and a half during seven days We know that many complete prove of great advantage The escape of fluid is found any stitches having been inserted whatever into the peritoneum to occur by reason of shrinkage of the uterine tissue of the uterine wound I offer then as a suggestion and for what it may be worth, the following method of using the same row of sutures for both abdominal and uterine wounds, and thus lessening the chances of shock and septicæmia

The uterus having been evacuated I would if necessary sew up the upper angle of the abdominal wound in the ordinary way until the abdominal wound and the uterine wound were both of the same length, then by introducing the ordinary suture urine escaping into the peritoneal cavity through one lip of the abdominal wound, then through the corresponding lip of the uterine wound and crossing over and passing the sutures out through the other lip of the uterine wound, and then out through the corresponding side or lip of the abdominal wound we would obtain a single row of sutures which it seems would close both wounds effectually The sutures should be entered one half to three fourths of an inch from the margin of each wound. In this way the suture being secured a strip of parietal peritoneum comes in contact with a strip of uterine peritoneum along the whole length of the uterine wound, on both sides of the incision, and then the peritoneal cavity is shut off from the uterine discharges In addition to the adhesive inflammation surrounding the uterine wound we would have parietal peritoneum pressing directly upon the closed uterine incision

That there are some advantages in this method cannot be denied The question remains for decision, however, whether the disadvantages will not counterbalance the advantages a great saving of time and labor as one row of sutures | jaundice from the obstruction in the gall-bladder can be put in much more quickly than three rows If any fistula resulted the discharge would occur out side of the peritoneal cavity

of bringing in contact opposing surfaces of peritoneum would be avoided Surgical shock would be diminished and the operation greatly simplified The ends of the sutures being outside the abdomen could be lightened as occasion might require Let us now consider the disadvantages

1 Would there be sufficient traction exerted to cut out the sutures? I think not We know that a retroverted uterus may be dragged up out of the continue in position The abdominal walls admit of toms, and there is an absence of pain sufficient depression to form firm adhesions about the is also absent cervix after an extra peritoneal stump is left behind This fact shows how depressible the abdominal walls shin Immediately after labor the uterus is at least

six and a half inches in length, so that we can So far as I know it is original and it is left to the see the relaxed abdominal walls about the upper Society to judge of its usefulness. In regard to the angle of the wound would only have to sink in an which I think might shorten the time required and should remain in contact so long union would be If a fistula should occur in all probability patients die of shock on account of length of time, the discharge would flow outside of the abdomen etc, some of septicæmia, etc, septic trouble being We know many cases of cattle-horn laceration have produced by escape of fluid from the uterine wound gotten well not only without any fistula, but without

The uterus would not remain permanently elevated and consequent loosening of the sutures and gaping any more than a supra-vaginal cervix after an extraperitoneal hysterectomy The writer was induced to make these suggestions by watching the results of a similar operation on the bladder where the whole length of that organ was cut open during an exploratory laparotomy for a fibroid tumor of the uterus The bladder and abdominal walls were stitched together with one row of sutures as already described in such a manner that the two layers of peritoneum stuck fast together, thus preventing a single drop of retically there would seem to be no objection to the operation as described To be demonstrated or practical it will have to be tried

MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA

Stated Meeting, November 23, 1887

THE PRESIDENT, JOS TABER JOHNSON, M D, IN THE CHAIR

DR I W BLACKBURN presented a case and specimen of

SARCOMA OF THE SUPRA-RENAL CAPSULE

(See p 389)

DR SCHÆFFER asked Dr Blackburn if there was any pigmentation of the skin?

Dr Blackburn There was only a slight yellow-There would certainly be ish tint of the skin, which he thought was due to the

> THE PRESIDENT Could the tumor have been removed during life?

DR BLACKBURN saw nothing to prevent it except Any resection of muscular tissue for the purpose the adhesions The blood supply of the tumor was through very small vessels

DR SCHÆFFER would call attention to the weight of the tumor, which is one and one half times as great as that of the liver It would be interesting to know whether the mental disease was merely coincident or based on the origin of the tumor thought there was some connection between the mental state and the growth

His own experience with such tumors DR LAMB pelvis and stitched to the abdominal peritoneum and is that they do not give rise to any well-marked symp-Pigmentation Where the capsule has undergone cheesy degeneration we find pigmentations of the

Dr Schæffer It is not rare to find cancer of eight inches in length. At the end of a week it is the capsules coexisting with Addison's disease

As to the matter of pigmentation, he had occasion several years ago to look up the sub-A young man consulted him after a distinguished English physician had diagnosticated Addison's disease, and he accepted the diagnosis did not have the characteristic bronze pigmentation His skin was dark, but he was of a dark complexioned family, and was also said to have been sunburnt He thought the man had Addison's disease up to the last, but there were no decided symptoms mortem showed that every organ in the chest was Both capsules were also diseased cancerous thought the absence of pigmentation in Dr Blackburn's case was not due to the character of the disease, but to the fact that it was confined to one capsule

DR BIACKBURN thought the hæmorrhoids were due to the disturbance of the portal circulation

DR D S LAMB presented a case and specimen of

BONF SYPHILIS

Had been sick for years Colored man, act 42 Was in Freedman's Hospital several times for long Had enlargement of liver and dropsy, cough, vomiting and diarrhoa, jaundice, severe, persistent headache Died November 1, 1887

Emaciation extreme Necropsy by Dr Lamb Right inguinal glands enlarged and indurated, ex-

ternal genitals normal

Vault of skull thick and showed many small gummata, which had caused absorption and exostosis Scalp and dura mater both closely attached to calva-Brain 50 —, normal

Lower incisor teeth irregular, but no "syphilitic" Mouth, throat and larynx normal, except several minute abrasions on under side of epiglottis

Tonsils atrophied

Heart 8 ozs, irregular patch of old pericarditis on right ventricle, slight atheroma of ascending aorta Several anterior mediastinal glands enlarged, hard, pigmented and contained grayish foci not softened Firm old pleuritic adhesions on both sides lung 29 ozs, upper lobe ædematous Left lung 14 ozs lower lobe contained grayish nodules indefinitely outlined

Stomach small, mucous membrane smooth Liver 34 ozs, aptestines also appeared atrophied Spleen 31/2 ozs, pale, thickening of peared normal Right kidney 5 ozs, lest 7 ozs capsule Iliac, lumbar and lesser omenand prostate normal tal glands enlarged, firm, and with grayish foci

Sections of lung and kidney and pericranium have been set aside for microscopical examination, but I do not think there is any doubt of the case being The nodules in the lung may prove The enlarged liver had been resyphilitic to be tubercular duced, I presume, by the iodide treatment enlargement of glands in the right inguinal region began while the patient was confined to his bed in hospital, and a careful examination then failed to find any venereal sore, nor was the post-mortem examtheless, quite an extensive chain of glands in the iliac sequences of a criminal seduction Dr Kiernan and lumbar regions was found diseased as also as the and lumbar regions was found diseased, as also in the pointed out that attendants guilty of perjury at the

anterior mediastinum All of this suggests syphilitic infection acquired except the apparent absence of the primary sore It may be that the bone disease was from the congenital transmission, though I be lieve such cases are rare And it is said that a per son already showing evidence of syphilis cannot acquire the disease Altogether the case has been interesting to me, as well as puzzling

DR Jos Taber Johnson reported

THREE CASES OF OVARIOTOMY, TWO DOUBLE AND ONE SINGLE

(See p 386)

DR LAMB would like Dr Blackburn to give his experience in examining skulls with reference to

syphilis

DR BLACKBURN has seen very few well marked syphilitic cases In 225 skulls examined he had not seen one with the characters shown by the specimen He had frequently seen syphi presented to-night litic nodules of bones

In reply to a question by DR King as to what doses of potassium iodide were given in the case presented? DR LAMB said that 20 grains were given

three times daily

DR King believed in very large doses He began with 10 grains and increased the dose daily until it reached 300 grains, if necessary

DR FRIEDRICH had followed the plan mentioned by Dr King until his patient took i Troy ounce a

DR KING had heard Dr Hammond say, in a lec ture on anatomy delivered at the University of Ver mont that a man with syphilitic epilepsy was 50 accustomed to the potassium iodide that he bought 12 pounds a week

DR CALDWELL had treated a man for syphilis who finally went to the Hot Springs Upon his return he stated that he had been taking I ounce of the potas sium iodide daily, and he was apparently cured

CHICAGO MEDICAL SOCIETY

Stated Meeting, December 16, 1887

THE PRESIDENT, W T BELFIELD, M D, IN THE

DR J G KIERNAN read a paper entitled CAN A SANE MAN BE CONFINED IN AN ILLINOIS IN SANE HOSPITAL?

He discussed the self-contradictory character of the Illinois insane commitment law, and pointed out that under it the brother-in-law of one of the bood lers, without having been legally committed, had been placed, while sane, in the Cook County Insane Hospital, whereupon the Warden, H H Varnell, and the Superintendent, Dr J C Spray, had certi fied to his insanity and presence as a patient of the Such certificates were subsequently used to defend the aforesaid individual from the con

1885 investigation were retained in the Insane Hosthe hands of unscrupulous people to prove sane peo He urged the Society to assist the State ple insane Society in securing the abrogation of the present ab surd and brutal law, and to assist in securing State supervision of all places where the insane were kept

DR N S Davis So far as the paper is concerned, I have no knowledge of the facts the Illinois law for the commitment of the insane, I have had but one opinion since it was enacted has seemed to me one of the most unnecessary laws, unjust, and injudicious for the accomplishment of its The object being to prevent the commit ment of sane persons to insane asylums and keeping them there. I think it would puzzle any intelligent physician conversant with the insane and with the ordinary proceedings of courts and juries to tell wherein there is the least degree greater security with this law than there is with the ordinary laws that exist in almost all other civilized countries in regard to the commit-There are a large number of the ment of the insane insane that are totally unfit to be taken before a jury or in a public court and confronted as the law requires, and in order to avoid it the judge must evade the childbed insanity to a public court, under intense excitement and in a physical condition where the most humane thing that could be done would be to secure for her quiet and seclusion, is revolting to every sane mind The process the law requires is so utterly repugnant to their sense of justice that some judges have evaded it by instituting private exlaw should not be drawn in such a way that human-

ity requires it to be evaded my care not many months ago, who was brought the street, with but one physician among them relieved by taking her away from home But in stead of being benefited she became more decidedly moved selves in a dilemma look about to see how they could secure her and re-street corners wanted to know if there was not some private insti were certainly institutions and, so far as I knew, perfectly reliable ones, as well as State institutions but her go through the form of a trial and be recorded in court as convicted of insanity That idea stands directly in the way of a great many of our best citizens who unfortunately have a member of the family be It is regarded, whether rightly or not, come insane as put upon record for the inspection of the world and all future time, and such a verdict of insanity is regarded by a large class of intelligent people as a bar or hindrance to perhaps the most desirable prosand ask us, What else can we do?

I said to these people There is no other way pital, and such persons would be excellent tools in known to me but to take her out of the State just as you brought her in, you will have to take the risk and take her away or leave her where she is made preparations to take her to an institution near Cincinnati, to avoid our law And I have known of not a few cases taken out of the city quietly because people will not submit to that procedure which increases insanity sometimes to a dangerous extent think if that delicate girl had been taken to the court room and confronted by a jury, in accordance with the terms of that law, with the incipient indications of meningitis that she was laboring under, it would probably have increased it into complete meningeal inflammation and probable death within a week But, fortunately, the case terminated more favorably The family kindly consented to have her remain where she was and each to do what they could A reliable nurse was obtained, and the mother was to take the place of the nurse only long enough for her to sleep And the nurse and I agreed to do what we could to get the patient well and, having her thus secluded, the young lady in time got well, went home, and is as well to day as any other girl in her native State

I give this instance to show that there is absolute The idea of taking a woman in puerperal or harm worked to the insane by this law, which secures no greater certainty of preventing those who are not insane being placed in an asylum, not one whit more than the law of New York or Wisconsin, or a dozen other States, or the laws of almost any other civilized country

Talking about medical men—three medical men in succession separately examining a case personally and aminations of the parties at their homes. But the acquainting themselves with it, and going before a magistrate and making oath to the correctness of their statements should certainly be not less reliable I had the misfortune to have a young lady under than a jury of non-professional men summoned from here from another State in hopes that she would be not think the profession of this State ought to rest contented until the bad features of that law are re-If they need a jury law in any case, let it and excitedly insane Her friends here found them- be retained only for such accused parties as may ask Her mother brought her here for a jury, or whose friends may ask it for them to the house of relatives, and instead of getting bet- And then make it a real jury, just the same as any ter she had become decidedly worse, requiring the other jury that is deemed competent in a court of most vigilant care day and night, so they began to record, and not a halfway jury summoned from the But in all cases where the parties lieve themselves, and they came to me for advice and accused or their responsible friends do not ask for a jury, let the same testimony that the rest of the civiltution that she could be taken to? I told them there | ized world accepts be considered satisfactory for the State of Illinois, and I think we will have better credit, exercise greater humanity, and secure better they would be obliged to go before a court and have results to the insane as well as to those who are not

DR G C PAOLI Sofar as Chicago is concerned, I have several times had an opportunity of shaming the injustice of trials for insanity before the courts I remember the case of a lady whose family physician I had been She was, though a woman of strong common sense, of an extremely nervous temperament Herhusband wanted her to sign over to him not only their joint property, but also property that belonged pects and chances in life, and they rebel against it to her individually. This she refused to do. The husband then came to my office and said that he wanted

me to go into court to testify to his wife's insanity I told him that if either of them was insanc it was himself and not she. He was displeased at this and told me of a physician who at first decided that she was not insane, but finally, through undue influence, his judgment was reversed and he pronounced the poor woman insanc I gave a history of the case and the woman was adjudged same. She afterward studied law and has, I understand, been admitted to newspaper friends say, the result of her dissipation, who afterwards became infatuated with another woman and wanted to marry her, and in order to get rid of his wife he paid a great deal of money to prove preme Court If a person committed to the asylum that she was insane Meanwhile friends who were should appeal to the Supreme Court he would be set interested in her case, not receiving notice of her free trial, procured another trial and the woman was an indefinite something is to come but never comes This shows the loose way in which the business is done These trials are conducted in a way that is a shame to the State of Illinois These two women would no doubt be in the lunatic asylum to day if somebody had not taken an interest in them The jury that decides these important questions! should be composed of physicians, and not of men from the various walks of life, who are not competent to decide on this subject, and sometimes, though surd that the judge set it aside there be one physician amongst the jurors, he may not be competent to diagnose a case of insanity

Dr. Frank Billings I cannot discuss the subject, but I should like to ask a question of Dr Kiernan that pertains to the subject. About two years ago, and within the last six months, I have had patients whom it was necessary to send to an asylum The people were so situated that they did not care to go before a jury, and they were both put in a board for boodlers to pocket. This is frequently I have been told that should these done private asylum patients awake to the fact that they had been put in an asylum, those who put them there would be hable read are all on file in that court, and they can be

for damages

DR J G KIERNAN The point raised by Dr Billings is covered by the Section I have read, that says the person shall be liable to civil and criminal damages, to one year's imprisonment in the county pail and to fine or both, and to suit for civil damages Another state of things is even more curious supposing the patient be a case of melancholia who, as frequently happens, recognizes the importance of certain suicidal impulses and desires to place himself Supposing that patient should be under control put under control at his own request, without a jury trial, and taken to an institution For doing that thing at the request of the patient any one would be The law, it liable to criminal and civil prosecution is almost unnecessary to state, was passed at the instance of a paranoia named Mrs Packard, who had One of those been in the Jacksonville institution enterprising humbugs who run newspapers went there, was touched by the woman's story, wrote up the case, and there was a great liberation epidemic, yet this woman was rightfully placed under humane laws in that institution With regard to the case in France of which Dr Paoli has spoken, I am acquainted with its history I must confess that I think the man was placed rightfully in an insane asy- cles that are abstracted from the body of a patient The newspapers have stated the other way, just before, during or after the chill characteristic of

but the newspaper medicine is always absurd The man was placed there under the authority of one of the most able alienists this age has produced, Legrand du Saulle, one whose dictum has almost as much weight as a law

Another patient was liberated under almost the same circumstances from an English insane hospital She has just been sent back to the asylum as, so her In another case a woman married a man but really this resulted from her insanity She was previously reputable

The law here would not stand the test of the Su-The finding of the jury is merely an inquest,

In regard to how the juries are consultated I may be permitted to cite one instance In 1884 there was a man on trial who was clearly insane A man got himself put on the jury to spite the brother of the patient, and declared a man sane who believed that his brother, while on the witness stand in open court, was forcing compressed air into him with a patent electric apparatus The verdict was so ab

Another harshness results under this law Sup pose a man in moderate circumstances has an insane relative, but he cannot afford to pay his board at an insane asylum, that friend must be decided a pauper On the other hand, the judge may decide that the insane man is not a pauper because the insane man's brother gets \$12 a week, although he may have five children to support, and the latter has to pay his

In regard to the case I have stated, the certificates procured at any time The case was one in which there was no doubt of the object While the man was at the institution he was going on the bail bond of two other people, and his mental condition was not questioned, the point did not he in the fact of his being sent there Here is an institution that is not visited for years by the supervisors of our State This institution is under the control, to all intents and purposes, of a set of politicians Under this, the law, and by aid of the art of "jury-fixing" so commonly used, a sane man, obnoxious to the "bood lers," could be adjudged insane The vile attendants would swear to his violence and the Superintendent would, judging from the certificates quoted, do the same The law should be amended to secure privacy in commitment and proper State supervision afterwards

DR W T BELFIELD exhibited a specimen of the

BACILLI OF INTERMITTENT FEVER,

This specimen is exhibited through the and said kindness of Dr William T Councilman, associate professor of pathology in the Johns Hopkins Um It presents the organisms first described by versity They are contained in the blood corpus Lavaran

They are always present at that intermittent fever time, being contained in numerous corpuscles, and are not found except at that period-about the time Nor are they found in the blood of inof the chill dividuals who are not suffering from intermittent fever That, so far as I am aware, is the extent of the invesacteristic organisms found in the blood corpuscles artery this does not prove any causal relation of the organisms to the disease, that requires cultivation outside now of the body and inoculations with pure cultures these organisms are the cause of intermittent fever But observations are sufficiently numerous to warrant the assertion that these organisms are characteristic of the blood of patients suffering from that of Obermeier, which was one of the earliest of the organisms observed in the blood

Did I understand that they DR N S DAVIS are found only in the blood at the stage of the chill -after the chill disappears, during the febrile stage?

DR BELFIELD That is the universal statement of observers They are present for a short time before and after the chill

DR R H BABCOCK Has the effect of the solution of quinine been tried on these organisms?

DR BELFIELD Not to my knowledge, in the The administration of blood outside of the body quinine to the patient, however, causes a rapid and complete disappearance of these bodies from the blood corpuscles

ST LOUIS MEDICAL SOCIETY

Stated Meeting, February 4, 1888 THE PRESIDENT, Y H BOND, M D IN THE CHAIR DR H H MUDD read the history of a case of FRACTURE OF THE FEMUR, WITH RUPTURE OF THE LEFT FEMORAL VEIN AND ARTERY

The patient entered the City Hospital at 3 30 PM, Monday, January 23 Two hours before he fell four stories through the hatchway of an elevator When brought to the hospital he was suffering from shock the pulse was weak-130 per minute-respiration shallow—30 per minute, skin covered with perspiration, the extremities, especially the lower, cold, the left thigh was deformed, there being a sharp bend at the junction of the lower and middle third, the thigh was increased in circumference scarcely be indented with the finger There was a the parts were discolored, and there was a slight fore proceeding to operate with the knife" abrasion Crepitus was felt at the point of deform-

far up as the knee, and was entirely absent over the foot The specimen presented shows a complete rupture of the semoral artery about the junction of the lower with the middle third of the bone and near the lower extremity of the femoral artery, just below the point of the complete rupture is a second, tigation that has been made They are merely char-lextending through one third of the calibre of the The vein shows a longitudinal, irregular during the chill of intermittent fever Of course laceration, extending across perhaps one-half of its circumference I think it is a little exaggerated It will be seen that the vein and artery were both involved I find in the International Encyclo-These have not been made, therefore it would not pedia of Surgery-Ashhurst's, from an article written be justifiable to say—and observers do not say—that | by Liddell, this quotation I quote it to show something of the status of the treatment in 1883 and 1886, because I think there is a change in the feeling of the profession concerning the proper treatment

"Ligation of artery and vein simultaneously for disease In that respect they rank with the spirillium venous hæmorrhage When a large vein is wounded and bleeding, Professor Langenbeck recommends that, as an hæmostatic measure, the accompanying artery should be tied as well as the injured vein He believes that when both artery and vein are tied, not only does gangrene not follow, but there is less disturbance to the capillary circulation than when the vein or artery alone is tied " He states that, by simultaneous ligation of both artery and vein equilibrium is maintained between the arteries and veins until the collateral circulation is established Two observations which I have already presented strongly support these views One of them was a case related by the late Dr George McClellan, in which, the femoral vein being lacerated, the femoral artery was ligatured, the hæmorrhage was easily restrained by compression, and the result was success-The other occurred to Professor Agnew, in it the hæmorrhage from a punctured femoral vein ceased on applying a ligature to the accompanying femoral artery, and did not recur That gangrene is not an inevitable result, and is but rarely to be expected in such instances, is well shown by the cases of Professor Grillo, of Naples, who included the femoral artery and vein in the same ligature in fifteen cases of aneurism of the ham or lower part of These were all successful, while in fourteen other cases, in which the artery was isolated and tied alone, there were two deaths from secondary hæmorrhage"

Again, "The main artery of the lower extremities is rent asunder without external wound much oftener than many suppose "

The indications for treatment in such injuries as that may be summed up under perhaps four heads, and under those four heads I find this statement

"Compression of the femoral artery at the pubes, Above the bend it was exceedingly tense, and could from its innocuousness, and the remarkable success which has attended its use, is far preferable to any tumor eight centimeters in diameter on the outer other plan of treatment, and the surgeon should surface of the knee, and over the external condyle always make faithful trial of it, when practicable be-

2 "The old operation, that is, the ligation of the ity, no pulsation could be felt in any artery below torn artery itself in the wound, above and below the the point of fracture, the patient's temperature was rent in its tunic, although J L Petit performed it 37 4 C General sensation was much diminished as with success, is not admissible in cases of simple geon can justify himself in voluntarily converting a it is at two Every thing favors this plan of treatsubcutaneous into an open fracture"

3 "Ligation of the superficial femoral artery, at ture instead of a simple one or above the middle of the thigh, as originally recommended and practiced by Dupuytren, is the operation which must be performed in cases of diffuse ancurism, resulting from fractures of the leg that are simple or unattended with external wounds, whenever compression of the femoral artery is impracticable or proven meffectual "

"Amputation at the knee should be performed, without delay, as soon as gangrene appears in the toes or foot belonging to a limb where this accident because of the interference with the circulation by had occurred, and there is but one circumstance besides gangrene which makes this operation admissible for the lesion in question, and that circumstance is the failure of all other plans of treatment"

From these quotations it would seem that the simultaneous ligation of the artery and vein does not materially increase the gravity of the case, but is rather a mitigating circumstance, and that gangrene is not so likely to follow as if only the artery If the vein itself is injured and that were ligated alone ligated, the danger is still further increased, from secondary hamorrhage, and from giving way of for controlling inflammatory affections about wounds, Gangrene had already supervened when I saw the case, forty-eight hours after the accident, I thought possibly we might have the artery in such a condition that it would carry on the circulation and enable us to save the limb even below the site When I made an incision into the of the fracture part I found a large coagulum of venous blood, and when that was detached arterial blood flowed After finding the condition of the parts, with injury both to the artery and vein with gangrene already present, we amputated the thigh above the site of injury, and the patient is in a way to recovery Now what are the dangers to such an injury? First, the danger of primary hæmorrhage, which our patient had already passed Second, the danger of This we should pretty secondary hæmorrhage certainly have had in this case, if we had simply waited, as the coagulum, which was a large one, was For when it softened, we diffused in the tissues should have had the clot in the vessel itself breaking down, and secondary hæmorrhage would have been Now the question comes up, and pertinently I think, whether gangrene is less likely the result to occur if we depend upon compression, or ligature at a proximal point or a point of election, or when we cut down upon the part and free the tissues and ligature directly at the point of injury immediately Shall we cut down upon a fracture? With a rupture of the artery, with such symptoms as we had here, I think we are justified in converting a simple fracture unto a compound fracture, that our proper surgical procedure is not to depend upon compression, but to cut directly down upon the injured part and free it from the coagulum to lessen the tension of the part, cleanse it, and ligate not only the artery, but if necessary the vein, thus giving an opportunity for collateral circulation is more likely to be reestab- were both perforated, and ligature placed on the

There is no pretext under which a sur-lished from an injury at one point in the artery than ment, if we are safe in making it a compound frac-We have in the original injury conditions which favor sepsis, we have a large coagulum, we have the sheath of the artery itself dissected away from the coat of the artery by the coagulum which pushes back into the connective tissue and interferes with the nutrition of the artery itself, the tissues of the leg are disturbed in their nutrition, because we have loose connective tissue infiltrated by a dense firm coagulum which prevents free circulation and gangrene supervenes the coagulum and the tension of the parts The injury, if promptly met and treated gives no more reason for gangrene than would the sample ligation of the artery or but little more, it certainly would not if the wound can be maintained in an aseptic condi-Once more I quote

"In gun-shot severance of the femoral artery with fracture of the femur I believe it is always best to amputate without delay, because gangrene is almost certain to ensue if the limb be not cut off"

It seems to me that with our improved facilities that we are justified in cases of fracture of the femur with injury to the femoral artery, or any of its large branches, in seeking at once the site of the injury and placing a ligature about it The collateral circulation is more readily developed than in would be if the ligature had been placed at the site of election Danger of secondary hæmorrhage is above injury much less than if we trust to compression Gangrene is much less likely to supervene for, cleaning out the clots, freeing the vessels from pressure ne limit the inflammation which is sure to follow such extravasation of blood as we get from the rupture of The increased difficulty of ligation a large artery at the point of injury should be no bar to the early Rendering a simple adoption of this proceeding fracture compound is now the lesser of the two evils presented Compound fractures under present management are very much more innocent of harm than is a ruptured artery treated under the old rules and

methods I might cite several cases which have come under my personal observation I once saw a policeman who was shot and the femoral artery severed about The artery was ligated at the same point as this the site of election above, gangrene supervened and the patient died on the fourth day a patient whose axillary artery and vein were both perforated by a bullet, and an aneurism developed, when I saw the patient some days afterwards, I ligated the subclavian artery, a secondary hæmorrhage occurred several days later I think it was the second or third day after the ligature was placed in position that the patient suddenly suffered a severe sense of oppression with hæmorrhage hæmorrhage occurred later associated with severe oppression of the chest, and the patient died Mak-The ing a post-mortem, we found that the vein and artery

blood-air mixed with the blood, and there was quite an extensive coagulum extending through the ture heart

DR MEISENBACH There is not a man practicing surgery who may not at some time be brought face to face with the condition which has been described by Dr Mudd I have met with only one case that I now recollect in which there was probably a rup ture of the femoral artery This case occurred in a man who was working under a railroad car, a bar- tive practice of surgery, and would like to have seen rel, which had been placed under one end to prop it up gave way, and struck the man on the thigh When I saw the patient he presented very much the appearance that Dr Mudd has described, the leg was shortened, out of line, and there was a bend in the thigh, the thigh was very thick and tense There to those principles I know just how difficult it is was a wound into which I could introduce my finger, and through which a portion of the thigh bone proof the tibial artery, and whether the femoral artery was not ruptured I could not positively determine I treated the case conservatively, put on a long Lister splint, and applied ice and watched results small beat in the posterior tibial artery days I was enabled to put on a Hodgen splint, and rhage at the time of the operation had the satisfaction of getting a very good union of the principle to which I have just referred the thigh bone, without shortening good condition and has never suffered any evil concompound fracture as he is in cutting down upon very careful and cautious at all events than there is in the other the placing of a ligament around both vessels at the case proximal end, the difference of course being in favor man fell out of a window direction in which the force which causes the injuries across the bone into the artery, or rub it across the artery tate without further delay

after, was in proper position, and the secondary any injury which has a tendency to bend the limb hemorrhage occurred from the avillary vein and not at an acute angle would have a greater tendency to from the artery The death of the patient was prob- drive the bone against the artery in such a way as to ably from insufflation of air, for the left auricle and rupture it, entirely or partially, and to be followed a portion of the vena cava were filled with grumous by rupture in the course of time producing an aneurism or some other condition which involves rup

> Dr D V Dean I wish to say only that in such cases as Dr Mudd has cited, in my opinion, the impropriety would consist in not making the wound an open one, even for explorative purposes, and afterward adopting such procedures as might be found necessary

Dr Broome I rather incline to the conservaconservative principles applied in this case know it was said of the father of American surgery that he never spilled a drop of blood uselessly And I think now when occasionally I hear reports read before this Society, that perhaps we ought to return to determine what to do under circumstances like those stated by Dr Mudd Here is a large, stout At the time I examined him I was very man who has fallen and has received a very severe much in doubt as to whether there was any pulsation injury, he finds that the skin is immensely tense and everything points to an abundant hæmorrhage underneath the skin, the circulation in the extremity is very feeble, if there is any at all But I under-Af-| stand that in this case there was some circulation, ter a number of hours I found a distinct but very and I think the circulation was growing stronger But the Furthermore, I infer from Dr Mudd's statement circulation became stronger and after a number of that there was a clot, and that there was no hæmortreating the wound as aseptically as I knew how is, what would have been the results had he clung to The man is in like to know what he thinks about it himself case of the policeman to which Dr Mudd referred, I think Dr Mudd struck the key note the patient was seen immediately after he was shot, in saying that where the artery is involved, where of course there was hæmorrhage at that time, but the fracture is such as to leave no doubt as to the in the case which he saw after three or four days rupture of the artery, the simple fracture should be standing, blood-clot had formed and no hæmorrhage, converted into a compound one Why should the and the bleeding did not occur again until after he surgeon hesitate to make a simple fracture compound cut down upon the part I would have liked to in this case? He is just as much justified in cutting have seen compression applied in this case, and a down and making a simple fracture of the thigh a conservative course adopted I think we should be the humerus and wiring the ends of the bones to- probably have done just what Dr Mudd did, had it There is no greater danger in the one case been my case, still I would like to have the doctor The compression at the tell us what he thinks would have been the result pubes acts, it seems to me, in the same way that does had a conservative practice been followed in the

The artery at the point of its rup-Dr Mudd of opening the wound and ligating the vessels at the ture is included in pretty firm tissue which forms site of injury I think Dr Mudd stated that the Hunter's canal, and it is pretty closely fixed to the I think that ruptures and bone The artery could not readily elude the bone, injuries of arteries are very often determined by the and it was cut by the sharp end of the bone fairly The conservative surgery of the old to the artery is applied Thus an injury which has authors, of recent authors and of all other aua tendency to produce an acute bending of the limb thorities, so far as I know, would have suggested, at at the time of the reception of the injury would be the time that we saw this case on Wednesday last, much more liable to injure an artery, that is, drive and at the time Dr Broome saw it, that we ampuin such a way as to cause a rupture, than in a case present, and the foot showed no evidence of a rewhere the artery would not come into line Thus turn of circulation The return of the circulation

was evident on the skin of the shin perhaps onethird of the way up, but the gangrenous process was already established, and my belief is that it was proceeding up the limb, and the question which presented itself to me was not whether we could save the whole of the leg, but any portion of it below the knee, and the effort to accomplish this determined I was satisfied that the first exploratory incision with the circulation in the condition which we found it, with a large clot present in the soft tissues, with the decomposition which was sure to occur, with the gangrene already established and sepsis already present, that we should have the gangrene extending rapidly unless that wound was cleaned out other words, this patient would have died if we had not amputated the leg, unless we could restore the circulation more perfectly than it was at that time, or more perfectly than nature could have reestablished it under the circumstances I hesitate to make a suggestion enlarging the field of operative It has extended so rapidly, has involved so many new questions, that even the oldest heads are puzzled to know where to stop and what to do, and it was only after considering the danger which would follow the conservative method of temporizing with such an injury, and thinking of the fatal results which have followed in the past, that I was led to adopt this method of direct and immediate interference, and I believe it to be a conservative plan, because, although primary hamorrhage was arrested here, the very conditions that we found showed that the hæmorrhage would have recurred if the man had survived the gangrene The point that I endeavored to make plain, I believe is a good one, to-wit that the gangrene is much more likely to supervene when we have an injury to the artery with such a tense condition of tissues as we had here, with the artery compressed, the venous circulation disturbed, because of the pressure and with the sheath of the artery, which supplies the blood, which gives nourishment to the coats of the vessels detached, than if we open up and cleanse the part, free it from this pressure, ligate the artery and vein if necessary, and put the part in a condition to develop the collateral If you will take the five hundred or circulation more cases of fracture reported by Dr Dennis a year ago, and the cases that have come under the observation of other men who practice surgery today, and see the good results that follow the practice of aseptic surgery in the treatment of compound fractures, you will readily conceive and concede that it is conservative surgery to ligate the artery and make the simple fracture compound is anything that brings to the surgeon an uneasy pillow, it is watching these cases of injury of the arteries and temporizing with them, depending upon pressure, waiting for secondary hæmorrhage to come to demand the interference that he ought to have made at first

THE GOVERNOR OF BUENOS AYRES has authorized Mr Neild to practice preventive vaccination for charbon, by the Pasteur method

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FROM OUR OWN CORRESPONDENT)

Late Hereditary Syphilis—Commencement of the University Medical School, of Bellevue Hospital Medical College—The New York Quarantine Station—Salary of the Health Officer

At the last meeting of the Academy of Medicine in March, Dr Frederick R Sturgis read a paper on "Some Questions in Connection with Syphilis Hered itaria Tarda," at the conclusion of which he expressed the opinion that late lesions never appear in hereditary syphilis, any more than in the acquired disease, without being preceded by earlier and minor syphilitic symptoms. In the discussion which followed the paper, while most of the speakers referred to cases in which no record or trace of this early history could be found, there seemed to be a unanimous concurrence in this view.

The subject, Dr Sturgis said, was one of special interest to the general practitioner as well as the syphilographer, on account of its relations to the etiology of many cases met with It had formerly been involved in much obscurity, and although great advances had been made during the last twenty years, many points still remained unelicidated. The question was still asked, Can hereditary syphilis remain latent for years? Until recently this was supposed to be a fact in certain exceptional cases of acquired syphilis, but the weight of evidence now showed beyond question that such a thing never occurred in the latter. It was the generally accepted opinion at the present day that, in cases apparently of this kind, other and lighter manifestations of syph

ilis invariably preceded the so-called tertiary symptoms. There was always an initial lesion, although no trace of it might afterwards remain

It was at one time supposed that in all cases of hereditary syphilis the disease showed itself at birth, but the fact was now recognized that many cases oc curred in which the child was apparently perfectly healthy when born Statistics showed, however, that in a large proportion of cases syphilitic lesions made their appearance before the end of the third month Of 249 cases collected by Diday and other author ties, the disease showed itself in 118 by the end of the first month, in 117 between this time and the end of the third month, and in 14 later than the third Of Diday's own cases, in two the lesions did not appear until after the first year In in stances in which the disease first showed itself at a very late period the question of acquired syphilis always had to be taken into consideration

The usual history of inherited syphilis, exclusive of those cases in which the child was born syphilitic, was that after a few weeks or months the earlier man ifestations of the disease made their appearance, such as a macular eruption or mucous patches of the mouth and tongue. At this early stage there was usually no eye or ear lesion, or affection of the bones or joints. These lesions soon passed away, and there

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or joints, or deep ulcerations in the buccal or nasal manifestations cavities Unless the early history of the patient that these late manifestations constituted the first appearance of the disease, as in an interesting case occurring in a man of 30, related by Fournier, in which the missing links in the history were supplied by the patient's family physician Even the diagnostic sign of Hutchinson's teeth was often absent in these cases

In the discussion on the paper Dr Edward L it had not been his experience to see any cases of what could be properly called late hereditary syphihereditary syphilis, and found that, after various pe- we might expect the later manifestations age of 25, however, when crystallization of the system had taken place, the trouble had been pretty the tenth or twelfth year well gotten through with, and he did not recall a single instance in which a new symptom of hereditary syphilis had appeared after this latter age The charin a virulent or a benign type of syphilis per se, the toms senousness of the symptoms depending to a great brothers, all of whom had syphilis at different times. central nervous system, which in one of them proved really seemed to thrive on the disease form Incidentally Dr Keyes spoke of a method of This consisted in the administration of the 100 part really syphilitic or not of a grain of bichloride of mercury every hour or, if He had never known this course of treatment to produce mercurialization and, in fact, it had often seemed to have a salutary effect upon the diarrhoea from which the infants at the Foundling Asylum were so apt to suffer

Dr P A Morron said that he could see no reason

might be no further syphilitic trouble for years, or ative evidence, and it was contrary to his general until the age of puberty was reached, when there knowledge of the disease to suppose that in any inmight develop keratitis, otitis, disease of the bones stance the patient had really escaped these earlier

Dr Roland W Taylor said that it was his firm could be accurately learned, it might be supposed conviction that there were always some manifestations in early infancy, though these might be so ephemeral or so unaccompanied by destructive action that they left no permanent trace We might expect the later lessons to appear at almost any time up to about the twenty-first year In the section on inherited syphilis in Bumstead and Taylor's work, he said, he had placed the usual limit at 12 years (although, as was well known, manifestations of hered-Keyes said that he could state with positiveness that itary syphilis occasionally showed themselves at a considerably later period), for the reason that he found that other affections would be likely to be con-He had, indeed, met with alleged cases of this founded with inherited syphilis, which was so comcharacter, but in all of them he was able to detect paratively rate at these later ages Dr Taylor said some scar or deformity which convinced him that that in his work published in 1876 he was the first the late lessons present were not the first manifesta- American to call attention to the bone lessons of tions of syphilis in the patient He had followed up syphilis, and to bring them out of the slough of soa number of individuals who were known to have had called scrofula. All the way up to the age of puberty riods of latency, the disease sometimes broke out got beyond the twenty first year it was pretty hard again before the age of 21 Before they reached the to say whether one was dealing with syphilis or not As a rule, the activity of the lesions occurred before

Dr L Bolton Bangs said that he was in accord with the other speakers in regard to the question at issue, and his own observation had been that almost acter of the disease in any particular case was also invariably, by careful inquiry and investigation, he largely a matter of soil, so that he did not believe had been able to find some history of previous symp-

Dr Chapin said that he agreed with Dr Keyes as extent on the constitutional characteristics of the to the importance of the kind of soil into which the subject In this connection he referred to three syphilitic infection was introduced, and said that he had known of many syphilitic infants with snuffles and in all of whom it produced grave lesions of the and mucous patches who were fat and robust, and fatal, yet the third of the brothers gave the disease later lesions occurring in individuals beyond the age to a young woman who had it in an extremely light of 10 or 12 years, he thought they might as well be called scrofula as syphilis If there were no typical treatment in congenital syphilis which he had worked lesions of syphilis present, it was his practice to put out some years ago at the New York Foundling Asy- patient on cod-liver oil and other tonic treatment, as lum, and which he had always found very satisfactory he was unable to decide whether the trouble was

Dr L Emmett Holt said that it seemed to him that was not practicable, of the 30 of a grain every to be the easiest thing in the world that the eartwo hours, night and day, the medicine being given her manifestations of hereditary syphilis should be in water or in the child's food Later, the intervals overlooked. In the course of his remarks he called between the doses could be extended to four hours attention to the importance, as a diagnostic sign of the disease, of enlargement of the epitrochlear glands, and said that although this condition might be due to other causes, in his experience very few cases of syphilis occurred without such enlargement

Dr A Jacobi said that when syphilis occurred at birth it was not always easy to recognize positively why hereditary syphilis should not continue through There was sometimes great difficulty in distinguish a lifetime, just as the acquired disease was often ing between a syphilitic and a rachitical bone, or known to do It was essentially the same affection rather cartilage, and particularly when the ribs were So far as his experience went, there was absolutely affected If the difficulty, then, was great at this no history of the early manifestations of the disease early period, it was still greater later on. It was a in many cases, but this was, of course, merely neg-lfact that where a number of children were born in a

syphilitic family the manifestations were apt to be- removed only for evacuation of the bowels and blad come less and less marked in each successive child, and the disease might at last be indistinguishable from so called rachitis or so called scrofula

In closing the discussion Dr Sturgis said that what he meant by the late lesions of hereditary syphilis was those occurring after the age of 5 years, and he believed that such late manifestations did not occur without previous symptoms The children in which these late lesions were found were apt to be born ap parently healthy, and when the earlier manifestations come shriveled and folded like a washerwoman's did occur, they might escape notice and remain untreated. It was in the untreated cases that the later lesions were most liable to make their appearance At the age of 5 or 6 years they were apt to have punctate interstitial keratitis and disease of the ears, joints, etc., and nothing would be found to do any 675 litres of water good until the iodide of potassium was resorted to Under this treatment the child would probably get which seems warm to him well rapidly outbreak of trouble, and about the age of puberty kept constant by a simple arrangement by means of the most serious explosion usually occurred. After a kerosene lamp the age of 25 the disease would generally be found to be acquired If a patient over this age presented for Tubercular Peritonitis," reporting a case in which himself with the earlier symptoms of syphilis we he had operated on a girl 16 years of age. She had could almost universally suspect that the disease was acquired, since the early manifestations of the inherited disease were most likely to show themselves incision in the median line between the umbilicus within three months from birth, and always did so within the first year

At the Commencement of the University Medical collapse on removal of the fluid School, which occurred at the Metropolitan Opera House March 6, there were 164 graduates, and at that feeling as if the finger had been thrust among small of Bellevue Hospital Medical College, which occurred lead shot at the Carnegie Laboratory March 12, the day of the great blizzard, 144 graduates

on a more business-like basis by reducing the salary of the Health Officer to \$10,000, cutting down the fees, etc, which was introduced into the State Senate in January has now passed both branches of the Legislature

LETTER FROM BOSTON

(FROM OUR OWN CORRESPONDENT)

The Surgical Use of Hebra's Continual Bath or Water-bed-Laparotomy for Tubercular Perstonetis -Treatment of Fractures of the External Condyle of the Humerus-A New Method for the Removal of Powder Grains from the Face

At the meeting of the Surgical Section of the Suffolk District Medical Society, on March 7th, Dr Otis K Newell read a paper on "The Surgical Use of Hebra's Continual Bath or Water-bed," of which he had had personal observation In addition to its use in the treatment of eczema and other cutaneous diseases, the continual bath has been used with success in the treatment of gangrene, bedsores, etc., and more especially severe burns, where its beneficial Patients are effects are particularly noticeable sometimes kept in the water for a very long time One patient was in the bath 385 days

der and they take their meals and sleep when in the The danger of drowning is much less than water seems apparent at first thought If a patient is very weak the precaution may be taken to support him by a bandage passing around the body under the arms, which is secured at the head of the bath to prevent his slipping down the inclined portion that raises the head out of water Only the palms and soles suffer and these only during the first few days They be hands and the condition is much alleviated by appli cations of substances of a greasy nature A papular eruption occurs on the parts which are both in and out of the water, as the arms and thorax This, however, heals spontaneously Hebra's beds contain When a patient first enters the bath the temperature of the water is 30° C (86°F), The heat is gradually At 10 there was likely to be another raised to 35° or 37° C (95° or 98 6° F), which is

Dr A T Cabot read a paper on "Laparotom, been previously tapped and 3 pints and 6 ounces of In operating he made an ascitic fluid withdrawn and the pubes He found a localized encysted pen tonitis containing ascitic fluid and the walls did not The peritoneum was so studded with miliary tubercles that it gave a A drainage tube was inserted and there was gradual recovery He also reported a case of general tuberculous peritonitis in a girl 3 years old The bill placing the New York Quarantine Station for which he had operated with good results and the In this case the wound was at patient was shown once closed, and Dr C prefers this method to drain This treatment for tuberculous peritonitis was accidentally discovered by Sir Spencer Welles over 20 years ago when he was operating for something else, and this patient is now alive Hirschfield has reported an autopsy where no tubercles could be found although they had existed previous to the oper Dr Cabot suggested as cause of the disap pearance of the tubercles, adhesions between the walls of the collapsed sac after the removal of the fluid and the encysting of the tubercles by connective tissue cells

Dr Elliot reported a case of successful operation for general tuberculous peritonitis in a girl 16 years old, and Dr John Homans reported two cases of laparotomy and one by tapping for tuberculous per

Dr G W Gay has treated external condyle of the humerus with the right angle splint He has seen follow dislocation of the radius forward, and also of both radius and ulva outward and backward To prevent the first dislocation he likes the acute angle splint and he also thinks side splints useful

Dr S J Mixter showed a new device for the re It consicts moval of powder grains from the face These are They are of small steel tubes of different sizes

similar to trocar tubes and are partially sharpened One of proper size is selected and placed on the skin over the site of the powder grain and then it is pressed down so that on removal the skin together with the powder grain is elevated above the surrounding skin It can then be snipped off with a pair of fine curved scissors and a suture of fine black skin allows the wound to heal by first intention without leaving any I ASNN scar

CINCINNATTI LETTER (FROM OUR OWN CORRESPONDENT)

The Association Meeting in May-More Positions for Internes in the Cincinnati Hospital-The Hospi tal, the Staff-Coalescence of Medical Societies-Fire in the Cincinnati Hospital-Medical College Com mencements

The absorbing topic in medical circles here is the meeting of the American Medical Association in our city in May of this year We confidently prophecy a very successful meeting, at least so far as the efforts years since we were honored by having the Associa- fession as a whole session a grand success The various committees are busily engaged pushing forward the work allotted schism is about at an end Music Hall and the adjoining rooms have This building is adbeen secured for the meetings the meetings of the various Sections

There will be a banquet tendered the members at our magnificent new Art Museum, at which place the delights of the stomach may be readily combined with those works of art that are so delightful to the Thus we may be enabled to obtain a feast of vision and a flow of gastric juice The following evening will be devoted to a concert given by the Apollo Club, at Music Hall We can guarantee a hearty and cordial welcome to all, and trust that we may be honored by an unusually large attendance

The hospital authorities have increased the chances for men to obtain hospital training, by appointing seven externes in addition to the internes already on duty The applicants for the positions are subjected to a competitive examination The seven presenting the best papers in all branches are chosen to fill the positions These examinations are strictly impartial, the Staff not knowing whose paper they examine nor in whose favor they vote The externes are chosen about the first of October each year, becoming internes upon the 10th of the following April during the winter months there are fifteen men on duty, seven internes, one senior interne, and seven The new system of appointing externes was maugurated last Fall, and must still be considered in the nature of an experiment

The City Hospital is a public institution, capable berg, the apothecary of the institution of holding about 400 patients The government is vested in a Board of Trustees appointed by the Governor of the State and by the Superior Court tics have never had any influence in the distribution had a better opportunity for distinction of positions, either medical or executive, conse-

quently the institution has always been well con ducted and prosperous

The Medical Staff of the Hospital consists of four surgeons, four medical men, four obstretricians, two oculists, two pathologists, and four curators and mi-The last named are not official posicroscopists The Staff changes every four months, half of the men being on duty at all times Such men as the following constitute the Staff Drs N P Dandridge, P S Conner, E W Walker, Jos Ransohoff, surgeons, Drs J A Murphy, F Farcheheimer, J C Mackenzie and Wm Carson, are the medical staff The obstetricians are Drs W H Taylor, Thad Reamy, C D The oculists are Drs Jos Palmer, and G M Allen Aub and Rob't Sattler Pathologists, Drs Kebler Drs Marsh, Cameron, Holmes and and Eichberg Caldwell occupy positions as curators

Several years ago an agitation arose that resulted in a division in the Academy of Medicine and a new Society was organized The consequence of the division was that the medical profession of our city has been seriously hampered and crippled by a lack There has been no assembly that authoriof unity of the local men are concerned It has been twenty tatively represented the opinions of the medical pro-Two comparatively weak Soci tion meet here, and we therefore wish to make the eties have been holding forth in place of one large, powerful and united brotherhood Happily, the The propriety and feasi bility of the amalgamation of the two Societies has been freely discussed, and the general tenor of mirably fitted for the general meeting, and also for opinion is decidedly in favor of an early coalescence The advantages that will arise from such a course are very obvious We shall be a united, harmonious and truly powerful association, we can speedily ob tain a permanent home for ourselves, we can be influential in securing legislation for the good of the public and for our own advancement, and better work can be done

There has been quite a serious conflagration at the Cincinnati Hospital The fire originated in a very peculiar manner, but one that it would be well to detail, as other institutions may have similar deathtraps for their patients. An elevator formerly run up through a shaft at the south end of the burned pavilion, after the elevator was removed the shaft was divided into compartments through which the dirty clothes, dust, etc, were carried to the basement Just alongside of this chute, in the first story of the building, was a gas-stove There had been a leak in the gas-pipe and the gas escaped up this chute to the ventilating space between the ceiling and the roof A match was applied to the gas-stove, with the effect of igniting the gas which had accumulated in the shaft, an explosion followed, setting fire to the woodwork and largely destroying the entire third floor of The patients all escaped without inthe payilion jury, but their safety was largely due to the efforts of Dr H T Gaylord, an interne, and Mr Julius Eich-Others deserve great credit for their efforts in rescuing the badly frightened patients, but the above named were Poli- on hand at the time of the explosion and therefore

The burned pavilion is the only one that is not

possessed of exits at both ends As the fire originated near the staircase, the patients were somewhat panic-The damage to the institution will be imstricken mediately repaired, and the previous defects in architecture will be remedied. Five thousand dollars suggestions made in our address to the medical so will about cover the amount of damage done

The medical colleges have had their commence ment exercises An interesting feature of the graduation exercises of the Ohio College was an address! delivered by Dr J S Billings, of Washington, D C, on "A History of the Ono Medical College before the War " It was a very interesting and pleasant talk, quite out of the line of the ordinary set speeches we are so apt to have inflicted upon us at Commencements He spoke in eloquent terms of Drs Graham and Blackman, recently deceased

J C O

ENORMOUS ENLARGEMENT OF THE HEAD

Dear Sir - The following case may be of interest to the readers of 1111 JOURNAL

Isham Harris, colored, at 17 Has been under my observation for 5 years. At the age of 3 months he had an eruption of the scalp lasting 6 months, during which the occiput, parietal and occipitofrontalis bones began to enlarge and have gained the enormous size of 33 inches above the ears, 171/2 inches each side right and left from chin to top of He is of average intelligence, sews, knits and crochets, has the physical development and face of a 5 years' old child, has not walked any in 7 years, previously having walked on crutches and getting a fall has since refused to make the attempt His general health is good and has been from infancy slight headache and dizziness when his liver is torpid, otherwise never complains of weight, pain or any unnatural feeling about the head, and weighs 85 I made a fruitless attempt to get his photograph to present at the International Medical Con gress, and have not succeeded at this writing, his mother refusing, stating that she is afraid someone will kidnap him for public exhibition

R H JENKINS, M D

Hogansville, Ga

NATIONAL CONTROL OF QUARANTINE

Dear Sir - The editorial in your issue of the 24th inst entitled "The Bill (H R 1526) to Prevent the Introduction of Contagious and Infectious Diseases and to Establish a Bureau of Health," causes me to understand that you have the impression that this is a bill which was introduced through the agency of the committee of the College of Physicians of Phil I write this, as a member of that committee, for the purpose of removing that impression The bill you speak of is doubtless one which has been proposed and introduced in accordance with the action of the American Public Health Association, at their last meeting, in advocacy of the estab-Philadelphia committee have had no connection November, 1856 Previous to his graduation he lishment of a National Bureau of Health, and the

with it in any way The report and the recommen dation of our committee were strictly limited to the question of the necessity of National Control of the Maritime Quarantine, and the bill embodying the cieties of the country has not yet been introduced May I request that you publish this letter, in order to correct a similar impression which may have been received by others? Very respectfully,

E O SHAKESPEARE 1336 Spruce St , Philadelphia, March 26, 1888

A CASE OF POST-PARTUM PUERPERAL CONVULSIONS

Dear Sir —On February 22, 1888, I was called by her husband to see Mrs B, at 24, multipara, whom I found in labor The labor had advanced to the second stage, and she was delivered in about thirty minutes after my arrival of a well developed The labor was normal in every respect, male fœtus and there was no hæmorrhage nor laceration of cer vix or perineum She had been in good health prior to labor, with the exception of the last three days, during which she had suffered from a very severe throbbing headache After delivery this headache continued, and about thirty minutes after delivery was completed she suddenly passed into general con vulsions In the course of an hour and a half she had seven very severe convulsive attacks I sent for counsel at once, which, however, did not reach me until after the convulsions had ceased ately after the first attack passed off I injected hy podermically ½ gr morphia with 50 gr atropia, which producing no visible effect, in thirty minutes ! injected 38 gr morphia with 230 gr atropia, and bled her from the arm to about 12 ozs After the second injection and the venesection the convulsions were less violent and the intervals longer, but as they had not ceased one hour after the second injection of morphia and atropia, I made an injection of ¼ gr morphia alone In a few minutes the convulsions The patient remained in ceased and did not recur an unconscious state about nine hours after the last convulsion, when she gradually regained conscious ness, and has made a good recovery

The patient is a stout, plethoric woman, and before the venesection the pulse was full, hard and bound C J MARCH, M D

Whelm Springs, Ark, Maich S, 1888

NECROLOGY.

A B STUART, MD

Dr A B Stuart died at Santa Rosa, California,

on July 30, 1887, aged 57 years

Dr Stuart was born at Williamsburg, Pa, on August 27, 1830 He was educated at Lewisburg University, Pa, and entered upon the study of med icine at Berkshire Medical College, Pittsfield, Mass, from which institution he was graduated MD in filled the position of demonstrator of anatomy in that

He located in practice in Westhampton, Mass, but in 1858 removed to Macomb, Ill, where he engaged in the duties of his profession until August, 1861, when he entered the army as assistant-surgeon of the 10th regiment Missouri infantry volunteers In the autumn of 1861, while assisting in the hasty timbers and sustained an injury producing partial paralysis, from which he never fully recovered Corinth and the spring campaign of 1862, but owing to severe illness he was sent North in July, 1862 In the month of September he returned to his command and was present at the battles of Iuka and mourns the loss of a most devoted son Corinth in September and October of that year After those battles the Confederate wounded, numbering over 3000, were placed in hospital at Iuka, Miss. under the immediate case of their own surgeons, and Dr Stuart was put in charge of the whole, by direction of General Rosecrans He filled the position of medical superintendent of the Iuka hospital until March, 1863, when arrangements were made for the care of the inmates elsewhere

In April, 1863, he was commissioned Surgeon of the 1st regiment Alabama cavalry volunteers, U S (white), and continued in active service with that regiment until January, 1864, when, owing to continued ill health, he resigned his commission, returned North, and some months later resumed practice in Macomb, Ill In the winter of 1865-6 he attended the regular session of the Bellevue Hospital Medical College, New York, receiving an adenudum degree

in March, 1866, from that college

In June, 1866, he removed to Minnesota, established an office in Winona, and engaged in general) practice until July 1, 1876, when he determined to seek a climate better adapted to his impaired health With this end in view he visited California, and for some years was located at Santa Barbara he removed to Santa Rosa, in that State, which point he selected as a permanent residence He soon acquired a lucrative practice in his new field, to which he gave his attention to the last day of his life

During the spring and early summer of 1887 he suffered from occasional seizures of partial paralysis, the effects of which, to some extent, disappeared On the 30th day of July, 1887, he was stricken with a severe attack of paralysis, from which he never rallied, death occurring on the evening of that day

Dr Stuart aided in the formation of the Winona County Medical Society in 1869, and was President of the same in 1872 He was a member of the Mass achusetts Medical Society, of the Minnesota State Medical Society from its organization-holding the position of vice president in 1874 and 1876-of the California Medical Society, and of the American Association, serving, in 1873, as secretary of the section on State Medicine and Hygiene He served as He served as a delegate from Minnesota to the International Medical Congress which met in Philadelphia in 1876 He was largely instrumental in securing the estab lishment of the Minnesota State Board of Health,

and was elected president of that body at its first

meeting in 1872

Dr Stuart, notwithstanding a feeble physical constitution and the vicissitudes attendant upon almost constant ill health, succeeded in accomplishing a large nork in his professional career, solely by the aid of that earnest effort and indomitable energy which were manifested in all his undertakings construction of a fort, he was caught between some later years of his life were saddened by the great affliction arising from the loss of his children He last bereavement, the death of his daughter Marv. was on duty with his regiment during the seige of a lovely child of 12 years, which occurred in 1883, was to him a sorrow unrelieved by the lapse of time

Of his immediate family his widow alone remains, but near the scenes of his childhood an aged father

MISCELLANEOUS.

INSTRUCTIONS TO THE MEMBERS OF THE ILLINOIS STATE Through the courtesy of MEDICAL SOCIETI -Dear Doctor the different Railway Passenger Associations all persons attending the Thirty Eighth Annual Meeting of the Illinois State Medical Society to be held at Rock Island, Ills, commencing Tuesday, May 15, 1888, will be granted a reduction of a fare and one third for the round trip, only under the following

First Each person must purchase (not more than three days prior to the date of the meeting), a first class ticket (either unlimited or limited) to the place of meeting, for which he will pay the regular tariff fare, and upon request the ticket agent will issue to him a certificate of such purchase properly filled up and

signed by said ticket agent
Second If through tickets cannot be procured at the starting point, the person will purchase to the most convenient point where such through tickets can be obtained, and there purchase through to the place of meeting, requesting a certificate properly filled out by the agent at the point where purchase is made

Tickets for the return journey will be sold by the ticket agents at the place of meeting, at one third the highest limited fare, only to those holding certificate, signed by the ticket agent at point where through ticket to the place of meeting was purchased, and countersigned by the secretary or clerk of the convention, certifying that the holder has been in attendance upon the convention

It is absolutely necessary that a certificate be pro cured, as it indicates that full fare has been paid for the going journey, and that the person is therefore entitled to the ex cursion fare returning It will also determine the route via which the ticket for the return journey should be sold, and without it no reduction will be made, as the rule of the associa tion is that "No refund of fare will be made, on any account whatever, because of failure of the parties to obtain certificates "

Tickets for return journey will be furnished only on certificates procured not more than three days before the meetmg assembles, and will be available for continuous passage only, no stop over privileges being allowed on tickets sold at less than full fares Certificates will not be honored unless pre sented within three days after the date of adjournment of the

convention

Ticket agents will be instructed that excursion fares will not be available unless the holders of certificates are properly identified, as above described by the secretary or clerk, on the certificate, which identification includes the statement that one hundred or more persons, who have purchased full fare tickets for the going passage, and hold properly receipted certificates, have been in attendance at the meeting

The certificates are not transferable and the signature affixed at the starting point, compared with the signature to the receipt, will enable the ticket agent to detect any attempted transfer

N B -Please read carefully the above instructions, be par

ticular to have the certificates properly filled and certified by the rulroad agent from whom you purchase your going ticket to the place of meeting, as the reduction on return will apply only to the point at which such through ticket was purchased Yours truly, G L Lister, M D

Assistant Secretary

Rock Island, Ill., March 20, 1888

SUCCESSILE DISTOSAL OF GARBAGE AT MILWAURFE Martin, Commissioner of Health, for Milwaukee, writes to the Saritary Arts of March 10, 1888, reporting the success of the

disposal of Larbage by cremation, as follows

Perhaps Milwaukee is not so favorably situated as some of our sister cities for the safe disposal of our refuse material, and that may be one reason why we have been forced to take vigorous measures to consume ours. Other municipalities have entered on a course of experiments involving large sums of mones, and will at the end of these experiments, be no nearer the solution of the problem than when they were first under With us it is quite different. Last summer we found that fully one half of our garbage was water that could be, and 1 as extracted by a powerful pre s and as we know of no better or charper method of getting rid of this water, than by evapora tion, and as we do not expect that garbage like ours will burn without fuel, so our furnice was erected, and every day, for more than five months, our garbage has been consumed to a Association in 1887. Dr. J. H. Quinn, Blue Springs, Neb., dry, modorous ash, with us, it is no longer an experiment, but became a member in 1886. These names were accidentally dry, modorous ash, with us, it is no longer an experiment, but the first state of the formal an accomplished fact, that we claim to be the first city that is omitted from the trienmal list of members as published in The to day destroying her refuse material by fire I test of the cost of consuming the garbage was made on December 27, with the following result. The amount received and consumed was, 40,215 pounds, and the fuel required was 5,000 pounds, being its twenty first annual session at Huntingdon, W Va, on May 43 cents per hundred pounds of garbage consumed, a result 16, 17 and 18, 1888. A full meeting is expected. For further highly gratifying when we consider that on that date there was information apply to J. L. Fullerton, M. D., Secretary, Charles a large quantity of such and her mixed with the garbage. large quantity of snow and ice mixed with the garbage This department entered into an agreement for three years with the contractor to hurn all garbage delivered at the furnace by order of this office, being that collected by men employed for The wholesale houses, grocers, commission houses, and others of that class, take their refuse to the same place The contractor is also required to burn all small dead animals, and the furnace is in actual operation during this season, the worst of the whole year, only from eight to ten hours daily

ANNAI ES DE I AHORA POIPF DI L'HOSTICE DES QUINZE VINCES is the name of a new and important periodical for ophthalmologists and pathologist, edited by Drs Pienzal and Hensell, and published by Delahage and Lecrosnier, of Paris The editors will issue a series of studies of the pathological material in the Hospice Quinze Vingt, which includes 1,700 enucleated bulbs

THEKAPFULICS WITHOUT ALCOHOL - The Temperance Hospital has been in existence now about twelve years, and the annual report for 1886-7 may be studied with advantage in order to compare the results with those of other hospitals not be supposed that the hospital only receives abstainers, though these are in the majority, probably due to the large proportion of infants and children. In the surgical department the results have been very satisfactory, so far as one is enabled to judge from mere figures, but turning to the medical cases, we may restrict examination to one or two groups of disease with Out of the thirteen cases of acute pneumonia four (abstainers) died, one of them on the fifty fourth day from ex Only four cases of typhoid fever were admitted in all, and although the cases were of young people—15, 7, 14 and 35, respectively—and comprised three abstainers, they all proved fatal. The treatment was the same as elsewhere, and the only difference consisted in the non exhibition of alcohol again, simple exhaustion, eighty seven days after the onset of the d sease, proved fatal in one instance. The average stay of the d sease, proved fatal in one instance. The average stay of patients in the hospital would seem to show that convalescence is unduly prolonged, and this notwithstanding the fact that the list of cases comprises several of "nasal catarrh" and other trivial complaints. The only occasion on which alcohol was administered was in a case of operation for strangulated hernia, in which death resulted from an unreduced constriction credit is due to the registrar, Mr Leopold Hudson, for the clear and practical manner in which he has tabulated and arranged his

We shall look forward with interest to future reports figures drawn upon the same excellent plan, as it is only by comparing results that medical men will be enabled to judge the ments of treatment without alcohol Thanks to the impartial summary with which the report opens, it is easy to grasp its general tenor It constitutes an innovation which other hospitals would do well to copy -British Medical Journal, March 10, 1888

Anatomical Science in the District of Columbia -On Monday, March 26, House Bill No 5040, for the promotion of anatomical science and to prevent the desecration of graves in the District of Columbia, came up for discussion in the House of Representatives While the discussion on the Bill and amend ments to it cover ten pages of the Congressional Record, there is nothing remarlable, in one way or the other, about the Bill It is simply one providing that the unclaimed dead in public in stitutions, and the bodies of such persons as, unclaimed, did not request burial, should be turned over to the medical colleges of the District of Columbia for dissection, and providing for the punishment of body snatching. The Bill and the objections punishment of body snatching The Bill and the objections made to it by members of the House will be considered next

ROLL OF PERMANENT MEMBERS -Dr D W Harrington, JOURNAL of December 31, 1887

THE WEST VIRGINIA STATE MEDICAL SOCIETY will hold ton, W Va

LA SEMANA MEDICA is the title of a new journal published in Havanna on the 7, 14, 21, and 28 of each month, and edited by Dr T Garcia

DONA DR MATILDE MONTOLA is the first woman to receive the degree of M D in the Mexican Republic

DR GARRE, of Basle, has been appointed Professor at Tur bingen

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY FROM MARCH 17, 1°55 TO MARCH 17, 1°55 TO MARCH 23 1888

Col J H Bayter, Chief Medical Purveyor, will proceed to Augusta Arsenal, Ga, on public business SO 62, AGO, March 16, 1888

Major Chas R Greenleaf, Surgeon, will proceed to Cambridge, Mass, on official business 5 O 62, A G O, March 16,

Major W H Forwood, Surgeon, granted one month's leave S O 20, Dept Dak, March 10, 1888

Myor H E Brown, Surgeon, assigned to temporary duty at Ft Barraneas, Fla, during the absence on leave of Asst Surgeon M C Wyeth On the return to duty of Capt Wyeth March Brown by Track has been station. S O 65. eth, Myor Brown will rejoin his proper station 5 0 65, A G O, March 20, 1888

Major R M O'Reilly, Surgeon, will proceed to York, Pa, and make an examination of Capt Edw B Rhum, Twent; first Inf S O 62, A G O, March 16, 1888

Capt J C Worthington, Asst Surgeon, granted leave of ab sence for four months, to take effect May 15, or as soon there after as his services can be spared S O 65, A G O,

Capt M C Wyeth, Asst Surgeon, granted leave of absence for two months, to take effect about April 1 S O 65, A

First Lieut Wm D Crosby, Asst Surgeon, granted leave of absence for two months, with permission to apply for an extension of one month to talk effect after home ordered to a tension of one month, to take effect after heing ordered to a new station S O 60, A G O, March 14, 1888

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ORIGINAL ARTICLES

AND A FULL DESCRIPTION OF THE "SÆNGER OPERATION"

Read before the Circinnati Academy of Medicine, January 30, 1888

BY GUSTAV ZINKŁ, M D,

OF CINCINNATI, OHIO

ASSISTANT TO THE CHAIR OF OBSTETRICS AND DISEASES OF WOMEN IN THE MEDICAL COLLEGE OF OHIO PRESIDENT OF THE CIN CINNATI OBSTETRICAL SOCIETY ETC

Austrian by birth, aged 23, primipara She had Mutilation of the child, or Cæsarean Section at delivery with the forceps, but without success

of which are well known to every practitioner of exjoined the lumbar vertebræ almost at right angles, she was tolerably well nourished pale, and wore an anxious expression, her skin was cold and clammy, the abdomen tympanitic, and severe pain in the pelvis, and supra-pubic region, which became almost intolerable during the contraction of the uterus Temp 100°, pulse 110 Fœtal above the superior straight Deformity of the pelvis sistants were cleansed thoroughly was at once apparent from the position of the

against the promontory of the sacrum, a distance of about three inches (see Plate xvi, Fig c) Thus, according to ordinary calculation, the conjugate di-CÆSAREAN SECTION, WITH REPORT OF A CASE ameter at the brim could not be more than two and one fourth inches The oblique and transverse diameters of the inlet could not be exactly determined, though at the time it seemed possible that delivery might be effected per vias naturales The forceps were again applied, and an effort made to fix the blades to the sides of the child's head, but failing in this, the head was grasped over the face and occiput With each pain, steady and firm traction was made A few minutes served to convince me that it was March 17, 1887, at 8 30 AM, I was called in cor- impossible to deliver the child alive through the sultation by Dr Adolph Grimm to see Mrs G, an natural channel One of two things had to be done been in labor thirty six hours, under the care of a former would have been resorted to had the child Dr Grimm had been summoned about been dead To destroy the infant and effect detwo hours prior to my arrival He found the pelvis livery, with the soft parts of the mother in an alcontracted, the os dilated, the head in first position ready swollen and tender condition, did not seem and above the brim He had made several attempts Justifiable to us, because, it might have resulted in the laceration of the organs, to a greater or less de-The patient occupied a small room in one of the gree Circumstances called for immediate action crowded tenement districts, the usual surroundings Whatever was to be done, had to be done at once To resort to craniotomy was to sacrifice the life of perience The patient was a dwarfed, pale brunette, the infant, while it would not have materially enfifty one and three-fourth inches tall, thirty inches hanced the mother's chances of life Hysterotomy, from vertex to tip of coccy. The lower limbs were I felt reasonably certain, would save the infant at abnormally small and knock-kneed, the sacrum least, while at the same time it did not deprive the mother of all hope of recovery Therefore it was Her face was determined to resort to Cæsarean Section

The operation was performed at 10 AM of the same day, Drs A Grimm and B Zinke assisting, tender to the touch She complained of constant the husband and midnife were also present. The patient was placed upon a table opposite a window The temperature of the room was kept at about 90° F throughout the operation Dr B Zinke adminheart was distinctly heard to the left of the median istered the chloroform, after 1/4 gr morph sulph had line, on a level with the umbilicus Digital examina- been given subcutaneously - Abdomen, vulva and tion revealed a swollen, hvid vulva and vagina, a upper portions of both thighs were then washed with fully dilated, but thick and flabby cervix The head soap and hot water, instruments and sponges were of the child rested (occiput to the left) transversely treated antiseptically Hands of operator and as-

The woman being anæsthetized, I made a five and sacrum, the coccy's being buried in the bed clothes, one half inch incision in the median line of the body, and the hand of the examiner being allowed to pass midway between the umbilicus and mons veneris easily under the back of the patient The promon-Before opening the womb all hæmorrhage was tory could be felt without difficulty. The middle of stopped Dr Grimm then placed his hands upon the first phalana of my right indea finger being the abdomen, surrounding as much as possible the firmly fixed against the lower border of the symphy-opening made, and gently, but firmly, pressed the sis pubis, permitted the tip of the same finger to rest abdominal parieties against the uterus. The point

selected for the incision in the womb was also in the | I median line. The position of the child could be easily outlined by running the tip of the finger over the exposed portion of the womb, and from this palpation I was satisfied that the placenta was not ittiched thereto Membranes had ruptured many hours previously, the uterine walls, when not con tracted, were fluccid The point chosen for the incision was the median line of the uterus about midway between the fundus and neck of the uterus small opening was at first made into the womb (in the upper portion) with an ordinary scalpel I brough this, a curved, blunt-pointed bistoury was introduced and the opening carefully but rapidly enlarged to about four and one half inches. There was profuse, but not excessive hiemorrhage, Dr Grimm destrously preventing it, and the remaining amniotic fluid from entering the abdominal cavity

The extraction of the child was the work of a few The right arm from elbow to shoulder was presented in the cut of the womb Taking hold of the arm gentle traction at once assured me that pain delivery could not be effected in this manner without running the risk of tearing the uterus. In attempting to deliver it by the feet, the same difficulty | pain presented itself (standing to the left of the patient) through the lower angle of the wound, and pushed it downward between the anterior wall of the womb, and the right | side of the head over the vertex. Then tilting the sulph gr 1/4 hypodermically head of the child upward and forward, it was easily guided through the opening and delivered proved to be a full grown, healthy child

The nomb contracted immediately and hæmor- Slight spasmodic pains over the loner portion of rhage amounted to but little thereafter time the patient was pale, the pulse perceptible, but No tympanitis Tr ver vir discontinued and 4gr very weak, her breathing was unembarrassed The cord, after being tied and severed, was carried through the incision in the uterine cavity through fortable, tr ver vir was again ordered to be given the cervix, brought out at the vulva, and the pla- hourly, in 2 drop doses on account of increased centa delivered per os and vaginam While thus pulse rate exposed, the uterus was observed to pass through several regular contractions I intended to close supra-pubic region Lochia somewhat offensive and the opening in the womb with a continued carbolized irritating in character Vaginal irrigations with car catgut suture, but when this was nearly finished, the suture broke in several places and consequently had to be abandoned I then resorted to the interrupted carbolized silk suture, eight stitches being introduced

Inspection and Cleansing of the Peritoneal Cavity | fering slight pain -The intestines had not been exposed Although, morphia several small, soft and thoroughly prepared sponges were dipped down deeply all around the uterus, Increased pain, slight distension of abdomen Gen nothing but the merest trace of blood could be ital tract irrigated and morph sulph 1/4 gr hypo found When satisfied that the abdominal and pel-|dermically vic cavities were clean, and that there was no oozing

anywhere, the

Abdominal Wound was closed by eight heavy silk A strip of lint, dipped in carbolized oil comfortable, no pain, abdomen not distended The rest of the dresswas placed over the wound ing consisted of a layer of absorbent cotton and a moderately tight abdominal bandage elapsed, from the giving of the anæsthetic to this point was one and one-half hours This may be divided as follows

l'or	anasthetic, about abdominal incision and stopping of hemorrhage, about	20	min
	uterine incision, delivery of child, and tying cord,	7	"
"	guiding the cord through the cervix, vagina, and out of the vulva sewing up the uterrie would	3	"
"	and the delivery of the placenta, about eleansing the abdominal and pelvic cavities respectively, sewing up the abdominal incisions and dressing the wound and the patient		

COURSE AND TREATMENT

Ist D y - 2 P MTwo hours after the operation patient suffered slight pain in the wound Pulse 120 Temp 10134° Resp normal 4 gr morph sulph subcutaneously Ice bag placed over the dressing

5 PM Temp 1013/4 Pulse 120, strong and full, patient felt comfortable Two drops of tr ver vir were given every 2 hours and morphine in 1/4 gr doses per os every 2-3 hours when required

7 PM Pulse and temperature the same No

12 PM Pulse 132 Temp 102° No pain 2d Day - 9 A 11 Pulse 132 Temp 100 1/4 No Patient vomited several times during the I then inserted my left hand night Morphia per os discontinued

12 M Pulse 132 Temp 100½° Pulse 136 Temp 1001/2° Pain in pel брм vic region, abdomen slightly distended Morph

Temp 101° 1/2 gr morph 12 P M Pulse 132

It | sulph subcutaneously

3d Day - 9 AM Pulse 108 Temp 10134° At this abdomen, apparently due to uterine contractions morphia given hypodermically

Temp 102 1/2° Patient com 12 M Pulse 120

Temp 102° Slight pain in Pulse 120 5 P M bolized warm water Abdominal dressing changed for the first time, and wound found to have united ¼ gr morphia No tympanitis by first intention subcutaneously

Temp 1001/4° Patient suf Pulse 120 12 P M Another injection of 1/4 gr of

Temp 100 1/2° 4th Day — 9 AM Pulse 120

Feels hot, Temp 102 1/4° Pulse 136 5 P M

very thirsty and restless No pain Patient felt Temp 991/2° IO P M Pulse 140 Patient seized with severe

5th Day -2 A M vomiting and thereafter complained of great pain in The time lower half of abdominal, and entire pelvic region

Temp 103° 9 AM Pulse 160 Digital examination of genital tract revealed great tenderness of the uterus and its surroundings, with slight ædema and partial fixation of the womb Removal of abdominal dressing showed no marked While the union throughout the incision was perfect, distinct spots of redness were found around the points where the sutures entered Lest this might prove a source of the integument men supported by long strips of rubber adhesive plaster, an inch broad, and an abdominal bandage gated

Antifebrin, gr , and morph sulph 1/4 gr, were

then administered

Temp roof Pulse 140 5 P M

restless, slightly delirious and tenderness over abdomen

Temp 10240 6th Day —9 AM Pulse 156 General condition unchanged Antipyrin, gr x,

morph 1/4 gr

5 PM Pulse 160 Temp 10250 The patient had become semi conscious, while her strength was ally, using xxx m every two hours

Pulse 160 much increased, delirious, no pain, but very rest-- less, whiskey, xxx m every hour, hypodermically

7th Day -8 AM Severity of all symptoms aug-Temp 1041/20 Pulse 160 Abdomen mented greatly distended but wound still intact Patient semi-conscious No pain, but much depressed and exhausted During the last few hours she suffered intensely from dyspnœa, which caused great restlessness and tossing about

She died from the combined effects of 2 P M peritonitis, dyspnœa and asthenia (See Plate xvii)

The ice bag was kept on the abdomen for nearly source of discomfort, and therefore it was discontinued and warm flannel substituted In the beginning the diet was mild, later, more nourishing and with the patient's stomach

The following diet was maintained Milk, mutton, beef and chicken broths, toast, the juice of broiled beef, port wine, and at one time a little beer was given to satisfy a strong craving for it. In the absence of any desire for food and the repeated attacks of vomiting the nourishment she received in the aggregate

amounted to very little

Post mortem Examination was held the following morning in the presence of Drs C D Palmer, Ed Walker, Adolph Grimm, Bruno Zinke and Thomas

Hays

Rigidity not very well marked, body in good state of preservation, features pinched and sunken, integument not discolored, abdominal walls enormously distended, wound gaping in the central portion to the extent of two and a half inches, a condi-

ness and throwing herself from side to side during the final struggle

The abdominal contents were held in place by a firm thick band of adhesion which had formed along the inner surface of the abdominal wall for more than an inch on each side and beyond the extremities of the incision, matting the omentum, uterus and irritation, all the sutures were removed and the abdo- bowels to the inner surface of the anterior abdominal

The cut was then enlarged to the sternum above placed over it as before, and the vagina again irri- and symphisis below. The intestines, distended with gas, showed a diffuse peritonitis, adhering universally to each other, to all the adjoining viscera and abdominal parieties, with the exception of the lower two thirds of the uterus, the bladder, and the true Pulse 156 Temp 102/2° The patient pelvic cavity Having removed the intestines, the stless, slightly delirious Increased tympanites liver, spleen and kidneys were found to be normal Having removed the intestines, the The body of the womb, high up above the brim, was bent upon the lower lumber vertebræ, over the promontory of the sacrum, and measured about seven inches in its vertical, and five inches in its greatest transverse diameter The walls at the upper third, where its transverse diameter was greatest, showed an rapidly failing Whiskey administered hypodermic-linch thickness, except in the proximity of the incision Here they tapered off from the inner to the outer Temp 1035° Tympanites surface, which was apparently due to sloughing All along this wound from the peritoneal surface, half way through the parenchyma of the womb, the union seemed to be perfect. On examining this wound with great care, it was found that the union had not been effected along the entire tract of the incision A space of about a quarter of an inch, corresponding to the upper suture, had failed to unite There was no communication, however, between the uterine and peritoneal cavity, this being rendered impossible by the adhesion of this section of the womb to the abdominal wall in front The remainder of the surface of the uterus and its appendages were smooth, but three days, during which time it seemed to have a marked with indentations by surrounding structures favorable effect upon the patient, after that it was a It was also greatly discolored, almost black, especially so at the inferior half, and both the ovaries

The pelvic pentoneum had the same appearance The upper half of the body of the uterus had a yelconcentrated food was given, in so far as it agreed low, greenish tint. There was no fluid pus present anywhere, nor adhesions between the pelvic viscera and pelvic peritoneum But there was to be seen a peculiar curdled, cream like, non adhesive pus, distributed in spots, or islands, upon the pelvic viscera and the peritoneal lining of the pelvic cavity uterus and appendages having been removed the following were the

Diameters of the pelvis at the superior strait convenience of comparison, I have placed them alongside of the average normal diameter

In this Patien	Natural Average Diameter				
Conjugate diameter Transverse " R oblique "	2½ m 4½ "	Conjugate Transverse R oblique		4½ 5¼	ın
L. "" " (See Plate vii, Fig	336 **	I. "	**	5	"

The diameters of the inferior strait and of those tion discovered only post mortem, and which must within the pelvis could not be taken with any degree have occurred shortly before or after death, and was of accuracy, though I believe that could the head no doubt caused by the patient's extreme restless have been made to pass the brim the rest of the cavity

would have offered no very great obstruction to the but the mother died on the seventh day. That she delivery of the child

RIMARKS

Was Casarean Section indicated in this case?

2 Was an operation justifiable at the time and place and under the culcumstances under which it was

performed l

In this country 2 inches, in Germany, France, and other European countries 2 73 inches and less, of the conjugate diameter, at the brim, is considered the limit at which hysterotomy may be resorted with perfect propriety, provided the infant still lives, and that the pelvis is not so distorted as to permit the passage of the head to one or the other side of the conjugate In other words, contraction of the anteroposterior diameter alone, is not to be considered a sufficient cause for the performance of the operation I must confess that in this case I believed, prior to the operation, that the conjugate at the upper strait The transverse was not more than 2 or 21/4 inches and oblique diameters at the brim, though likewise only approximately determined, were recognized as less than normal in size Notwithstanding, I believed myself justified in making another attempt to deliver the child with forceps, for it still seemed to me possible that a small child might be made to traverse this The introduction of the forceps contracted pelvis was not attended by any great difficulty Locking the instruments was not so easily accomplished The blades grasped the head over the face and occiput It was impossible to apply them over the sides, and hence was not persisted in Then gentle, later firm, and finally severe traction was made with each pain, but not the least progress effected

IVhat was then to be done? I believe with the majointy that it is wiser and more humane to spare the life of the mother though the child is sacrificed, if by so doing her life can be saved with any degree of certainty This, however, was not possible in the instance just cited All things being well considered, hysterotomy was determined upon, and performed in the presence of the gentlemen mentioned have abandoned the case entirely, or to have had her removed to more sanitary quarters would have been cowardly, to say the least, and would have resulted in the immediate death of both the parent and

child

For these reasons, with Dr Grimms' consent, I

assumed all the responsibility of the case

To what may the fatal issue in this case be attributed? The causes operative in the result obtained may be summed up as follows

Long delayed and exhaustive labor 2 Repeated unsuccessful attempts to deliver with

3 Bad hygienic surroundings of patient forceps

Shock of operation

Vomiting and inability to retain sufficient nour-

the carbolized catgut suture

lived so long is undoubtedly due to the great care and unremitting attention which Dr Grimm bestowed upon her

In this connection it may be proper to state that in this operation, as well as in any other so called capital surgical procedure, a certain amount of practical ex perience in the performance of the operation itself is absolutely necessary to success. But where, it may be asked, is a practical experience in Cæsarean section to be acquired? It would seem that this country offers very limited opportunity for this special This is true also of all other obstetric practice The fearful death-rate attending hyster operations otomy in this country, as manifested by the follow ing statistics of R B Harris, may be directly traced to the meagre obstetrical resources that this country furnishes, as well as to the consequent inadequate teaching of midwifery by its medical schools Where the teaching of obstetrics is most thorough, practi cally, Cæsarean section has been oftenest success fully performed "Germany," as Harris says, "takes the premium," while America shows the lowest per cent of recoveries This fact will remain so long as the teaching of practical midwifery remains more or less a strange one to the profession of this broad land

THE IMPROVED CÆSAREAN SECTION

Considerable improvement has been made by San ger in the operative technique of hysterotomy, when compared with the so called classical operation Not that he himself has discovered the various pic cedures of the different and successive steps in his new method of operating—he makes no such claim but by careful study, painstaking observation, re search and experiments, he has been able to formu late a method that bids fair to create a revolution in Strange as it may seem, prior operative obstetrics to 1887 English and American medical literature was almost silent on this subject, and Sanger's book, published in 1882, has received little or almost no attention from the English speaking profession Parvin (Science and Art of Obstetrics, '86) quotes an account derived chiefly from Potacki (Annales de Gynécologie f, 1886) It is a faithful description of the Sanger operation, but contains no drawing show ing the manner of introducing the uterine suture Lusk (Science and Art of Midwifery) is the only recent author who makes an attempt to illustrate the manner of undermining the peritoneum and of re We find a full though secting the muscular tissue not altogether very clear description of this opera tion in Charpentier (Grandin Encyclopedia of Ob But I know of stetrics and Gynecology, 1887) nothing that brought the suggestions of Sanger more thoroughly before the profession of this country than the rich and spicy "Sanger-Garrigues controversy concerning the claims and ments of the former, whose name the operation now bears, and which re 6 Development of general peritonitis

The operation was executed carefully and antiseptically with no mishaps, excepting the tearing of the carbolized catgut suture. The child was saved pold Crede Gussaron and others cannot fail to challenge attention wherever they are known view of the fact that the subject of

The New Casarean Section, or Sanger Operation, terrally has received no attention from this Academy, and least should, become a more frequent and successful, lying-in and her off-pring, I have concluded to furnish a detailed description of the same

I translate from an essay by Sanger, delivered at gauze Munich, 1886, besore Der Deutschen Gesellschaft

fuer Gynacologie

than those which every physician should have in his They may be disinfected possession, are necessary with carbolic solution, while both patient and operator employ bichloride for this purpose Thorough | disinfection of the shaved abdomen, of the external genitalia, vagina, even of the neck, are essential to Sponges are not absolutely necessary Cotton-nads dipped in solution of sublimate, carbolic acid, or chlorine water, as well as napkins of ine wound is the close (enge) double suture sublimate gauze, mull, etc., may be substituted persons are requisite for assistance may, in case of necessity, be trusted to a layman

the anterior median section of the uterus bilicus need not be avoided is not advisable, because it necessitates enlargement strong aseptic silk may be employed of the abdominal incision and renders intestinal pro- "6" The final acts in the operation consist in the the uterine contents escape into the abdominal cavity

3 Uterine incision, in situ, is made in the median of the uterus, the latter, especially, should be avoided, and may be recognized by the loose attachment of its peritoneum By placenta prævia Cæsaria, the pla centa should be either quickly cut through or detached on one side Delivery of the child is accomplished in the best and quickest manner by the feet If the head be retained, wait a short time only if this be due to contraction of the uterus, if relaxation does not occur soon, or if the incision be too small, elongate the same with button pointed scissors

the extraction of the child, it being bent forward and the abdominal wall quickly pressed together behind If the assistant has kept the latter all this time intimately in contact with the womb, neither blood nor uterine contents can find their way into the ab

dominal cavity

"The bowels may now be protected with an anti septic cloth, the uterus then rests upon another and is partly covered thereby. For the purpose of ar- form, without omissions, restrictions or criticisms resting hamorrhage from the womb, compression by

In as well as retraction and contraction of the same, have already served to lessen the loss of blood ma-The afterbirth is to be carefully detached manually, the perviousness of the os examined, and because I am convinced that henceforth it will, or at the inner surface of the uterus rendered smooth The uterine cavity need not, under ordinary aseptic not a last and futile resort, to save the life of the conditions, be disinfected, though one can introduce some todoform, and also, until the deep sutures have been inserted, a sponge or a few strips of antiseptic

"5 Sutures In the interest of simplicity, it is not necessary to undermine the serosa, bending in of the "I Preparations No peculiar instruments other same after fissuring it laterally, nor to resect the muscularis, unless there exists strong outward retraction of the peritoneum, broad exposure of the muscularis, bow shaped condition of the angles of the incision and irregular, rugged borders of the wound, then, of course, the latter must be rendered even and parallel, and the pentoneal edges must be brought in-

wardly so as to be in apposition

"The principal point in the treatment of the intersilver wire is best suited for the deep stitches, they sides the nurse, who is to take care of the infant, two should seize both peritoneum and parenchyma The anæsthetic broadly, but leave the decidua free, the point of entrance and exit of the needle should be about 1 cm "2 Abdominal Incision should always be in the from the margin of the incision, 8-10 deep sutures linea alba and in a manner corresponding exactly to are sufficient. After these sutures have been intro-The um-duced, tightened and shortened, a great number Hæmostatic forceps (16 to 30) of superficial, serous sutures are so inand the introduction of provisional sutures for the serted that each peritoneal border of the opening is purpose of subsequently drawing the incision together perforated twice, after the manner of Lembert (See are not essential Eventration of the unopened womb Plate 11, Figs 1 and 2) If silver wire be not at hand,

lapse more liable, unless one desires to be quite sure | bending of the wire ends upon themselves, in case (in the absence of sufficient assistance) that none of of bleeding, after removal of the tourniquet, from the line of incision or suture wounds, the introduction of stitches for the purpose of controlling the line midway between the fundus and lower segment same, washing of the uterus with a strong antiseptic solution (sublimate, o 5 per cent), iodoforming the suture line, previously rendered entirely dry, and lowering of the uterus into the abdominal cavity toilette of the latter will then only be necessary if fluids have found their way into it, which may be easily avoided The abdominal wound is to be closed without drainage, with silk button sutures The line of incision is iodo (Seiden-Knopfnaethe) formed, over which a thin adhesive plaster dressing As soon as the patient is placed in bed, is applied "4 Eventration of the uterus is effected during an ice bag is placed upon the abdomen and several injections of ergot should be made

"7 The after treatment should be as mactive as

possible "

The Academy, I trust, will pardon the presentation of this lengthy translation from Sanger's essay There are two reasons, however for doing so One is to do justice, if possible, to Dr Sanger, the other is to bring the subject before you in an unadulterated

Though it is five years since Sanger published his hand, or torsion of the organ in its long axis, may be book ("Der Kaisersehnitt bei Uterusfibromen nebst substituted in the absence of rubber tubing Even regleichender Methodik der Sectio Casarea und der tration and the bending forward of the empty uterus, Porro-Operation Kritiken, Studien und Vorschläge

vin, Science and Art of Obstetrics, 86, p 662) says "Now if such success could be obtained by practitioners generally, ovariotomy upon the hving fœtus would soon be unknown " Continuing (page 664) "We may justly hope that its extension will rapidly grow, and that it will meet with corresponding suc

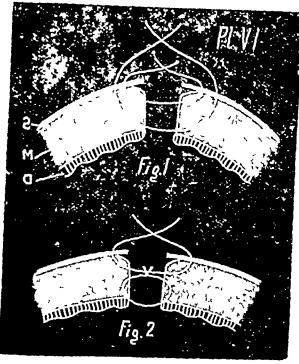


Plate VI - lig 1, a double row button suture the deep seizes the whole uterine will, excepting the decidual the superficial is intended only for the peritoneal coatering a suture analogous to Czerny (Plate I I ig 2) and the story suture (Etagennahi) of Schræder the deep unites the muscularis the superficial the peritoneum S, periton M parenchyma D, decidua

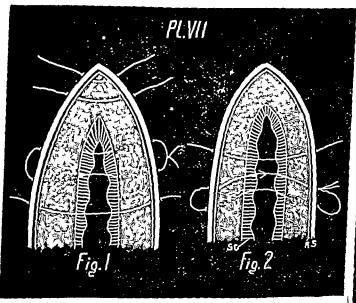
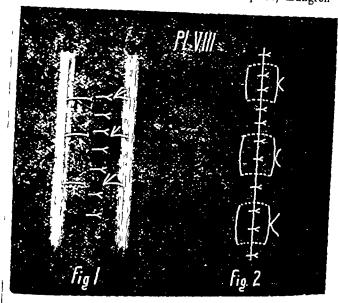


Plate VII — Uterine sutures seen from infro nt Fig. 7, a horizontal matress suture with superficial symperationed suture (Plate VIII, Fig. 2, when it is closed) Fig. 2 a vertical matress suture and superficial seroso serous suture (Plate VIII, Fig. 1, the same when closed) RS, the space between peritoneum and parenchyma indicates the under mined portion of peritoneum SC, decidua

True, there are authenticated cases on record in which the classical Cæsarean section has proved justly credited with having used the serose-serous successful, under unskilled and even unscientific suture But leaving out his own two cases of recov-

management Jacques Nufer, a swine herdsman, performed it on his own wife, successfully, in 1500 Sanger cites numerous cases in which the abdomen and nomb were opened in the most bungling man ner by careless and incompetent hands, and recovery took place R P Harris published several instances (Am Jour Obstetrics, last volume) of "cattle horn" cases, in which the fceti were torn from the womb and the mothers recovered In our own State, the statistics of whose operation are poor, Lungren



(See Plate VII, Fig 2)

(See Plate VII, Fig 1)

collected 13 cases (3 of his own), with 9 maternal recoveries and 8 living infants Two of his opera tions were performed on the same woman, who still lives with both of her Cæsarean children He is

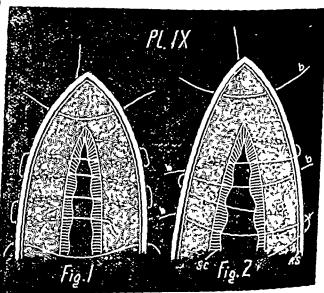


Plate IX —Fig 1, a continued horizontal matriess suture with super ficial seroso serous suture. The peritoneum may be entirely avoided as shown by the dotted lines, a a a a (Fig 1, Plate X the same when closed). Fig 2, a furrier suture, which seizes the peritoneal edges alternately, in connection with seroso serous button suture, to unite it peritoneum (Fig 2, Plate X, the same when closed) a a a the deep, b b b the superficial, sutures

unknown to me), the favorable termination of nearly all of these cannot be explained upon any scientific basis, and must be placed in the category of accidents, and therefore cannot be compared with the

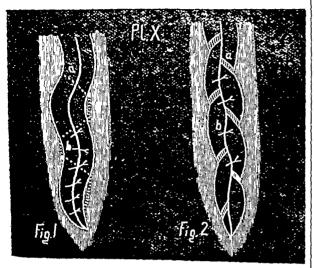


Plate X—a the deep b the superficial, sutures Fig 1 See Plate I\(\chi\), Fig 2) (See Plate IX,

results following an operative technique suggested by experience, experimental research, scientific and logical reasoning



Plate \(\mathbb{I}\)—Represents the abdominal incision sutures introduced and drawn out of the cut in loops. The line in the centre indicates the line of incision in the uterus. The dotted line marks the outline of the

The marvelous success of Leopold proves beyond all doubt that Sanger's "New Operation" is correct in principle and perfect in detail, that it is destined to hold its place in obstetric operations, that its performing hysterotomy, at once that careful atten-

ery (the particulars of the other successful case are classical Cesarean Section, and that both skill and experience are essential to its successful execution Abuse will follow, but that is not the fault of the "New Operation"

In the face of the facts, arguments, and statistics presented, and in consideration of the great im-



Plate VII —Shows the stage of eventration uterus having been with drawn from the abdominal cavity during the delivery of the body of the fœtus and the suture (Plate XI) closed up

portance the subject bears to the lying-in women, and the profession at large, I take the liberty, Mr President, of urging the members of this academy, and, to whoever may chance to read this dissertation hereafter, that they give the "Sanger-method" of

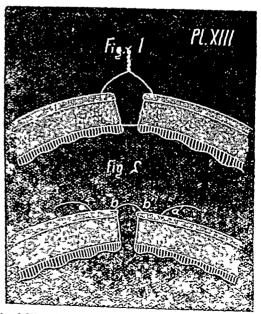


Plate \III - Shows the latest best and most simple manner of un tang uterine wound. Fig. 1 the deep suture (silver wire or carbolized silk). Fig. 2 the superficial suture after the manner of Lembert per forating twice on either side. a b and a'b. (Fine silk or catgut.)

sphere of usefulness will be larger than that of the tion necessary for a perfect understanding and

thorough familiarity requisite for its successful per-No one knows how soon he may be called upon to perform it ror of the statistics of our own State seventy-three | t c, by stenoses and atresiæ of the cervix and vagina, cases with the saving of but nine women, and only

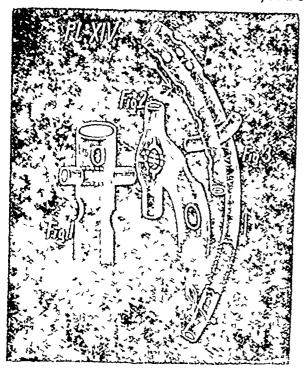


Plate XIV—Fig 1 drainage tube of Thiede age tube of Schede ligs 2 and 3, drain

eight children This alone should be an impetus to every one to bestir himself, and study this vital question

I have so far omitted speaking of the Poriooperation, and now make mention of it only to quote the indications for its employment, as given by

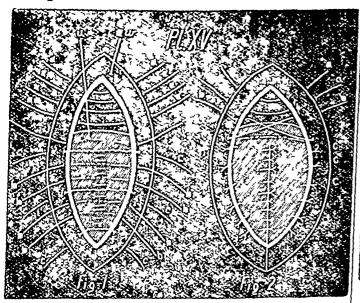


Plate XV—Fig 1 shows minner of suturing in cases in which it appears still possible that the uterine sutures may secure union but if not, the peritonical parietal suture may be taken out and peritonical cavity drained. U, uterus aw, abd wound and, peritonical parietal suture bb, utero parietal suture ecc abdomino prietal suture over the utero parietal suture. Fig 2 shows sutures when by reason of in fection, etc. it is necessary to treat wound openly abdominal wourd. s united only by sutures a a and b b

Indications for the Poiso operation

"I When the discharge of lochial secretions is Let us think with hor- rendered difficult or impossible per vias naturales or by tortuosity and compression of the soft ob stetric channel, due to a tumor not belonging to the uterus"

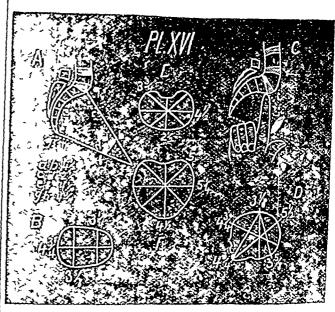
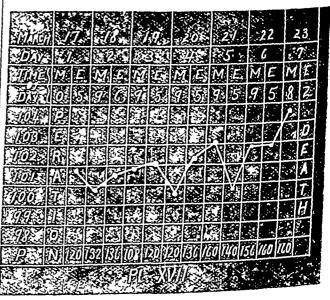


Plate VI —A, dotted line indicates deformity in case operated upon B and D, diameters of the child's head E pelvic inlet of case reported I, dotted line the same within natural sized pelvis C, man ner in which the conjugate was obtained

"2 By pregnancy in the closed up half of a uterus bicornis, in which delivery is preferably effected by establishing an artificial opening towards the open (Strictly speaking, this is not a true Porro operation, since the remaining half of the uterus may be again impregnated)"



Temperature chart of case reported

- When infection of the corpus uters is evident "
- After repeated classical sectio Cæsaria"
- By serious general osteo malacia (?) Thus, from what we have learned by a careful study of the "Improved Cæsarean Section," it car-

not be denied that the Porro-operation has been severely, yet properly restricted, and will be resorted to only in very rare instances

In conclusion, it may be proper to state, that no one regrets more fully than I do, that the case here reported was not a Sanger operation, per se

My principal reason for not following Sanger was, that up to the time of the operation, indeed up to my correspondence with Dr Sanger, I had failed to fully comprehend his method I have given you a faithful description of the new operation and have attempted to explain the same by the subjoined drawings 1

THE SWEDISH MOVEMENT AND MASSAGE TREATMENT

Abstract of a paper read before the Clinical Society of Mary land, February 17 1888

BY HARTWIG NISSEN,

DIRECTOR OF THE SWEDISH HEALTH INSTITUTION WASHINGTON, D C INSTRUCTOR IN GUMNASTICS AT JOHAS HOPKINS UNIVER SITY BALTIMORE

I am here to-night to tell you a little of what I know about "The Swedish Movement and Massage Treatment," and if some things should seem strange, or you should think that I have claimed rather much for it, I beg you to remember that all that I have to say is based upon facts, and that I am here not as a special agent for myself, but as one who wants to lay before you a clear and true representation of what has been done

As Herodotus observed the curative effects of gymnastics on his own delicate health and thereby was brought to use movements in therapy, so did the Swede, Pehr Henrik Ling, in the beginning of this century, study the movement treatment, because he had cured himself of rheumatism in the arm by gentle percussions Ling had been a fencing master and instructor of gymnastics, but now he studied anatomy and physiology, and the influence of the different movements and manipulations in different chronic diseases He brought gymnastics into a system corresponding with the knowledge of physiology, and this is the reason why it is called "the Ling System," or the "Swedish Movement Treatment" By ardent study and labor, Ling succeeded at last in making his new ideas recognized, and in 1813 the first "College for Pedagogical, Military and Medical Gymnastics," called the "Kongl Gymnastiska Central Institutet," was established in Stockholm at the expense of the Swedish Government The principal studies for graduation are anatomy, physiology, pathology, hygiene, diagnosis, principles of the moveand local development Ling died in 1839 pupils, Brandting, Georgii, Liedback and G Inde beton, published Ling's theories Hereby, and on account of the many foreigners who studied at the Central Institute of Stockholm, Ling's art soon became known in a great part of the world

Mr Joseph Schreiber, of Vienna, in his "Manual

Plates VI VII And VII my own the rest taken from being thus set up in both

of Massage and Muscle Exercise," p 21, says most powerful impetus, however, given to the revival of mechano-therapy, originated with a Swede, the originator of the modern "movement cure," whose doctrines, spreading to England and to Germany, have after many decades, and in spite of being marked by some extravagancies, gained universal recognition "

Endowed with depth of thought as well as creative genius, fortified by scientific information, and sustained by an untiring devotion to his task, Ling was early led from result to result by a careful classification of movements, and by a scientific examination of their different results Ling distinguished in the first instance between Active and Passive movements, Active Movements being such as the subject performs entirely by voluntary muscular contractions, and Passive Movements such as the subject takes no part in, beyond allowing the operator to move the whole or any portion of his body-as flexion, extension and rotation-and to manipulate it, as in stroking, kneading, pressing, percussion, etc These simple movements Ling combines into Resistive, or Dupler Movements, VIZ Active passive, or "concentric duplex" movements, such as the operator resists, and Passive active, or "excentric duplea" movements, such as the operator overcomes when the patient resists Dupley, because two individuals engage in it, concentric, because the patient's muscles have to overcome a resistance which prevents flexion—a movement toward the trunk, excentric, because the force acts in a direction away from the body

These movements cause an increased flow of blood to the muscles and soft parts, increasing thereby the circulation and removing accumulation of tissue They cause resorption of exudations, transuwaste dations and infiltrations, and a separation of adhesions in tendon sheaths and in joints They increase They relieve the the oxidizing powers of the blood congestion of the brain, lungs, intestines, uterus, liver and kidneys by increasing the flow of blood to the They stimulate directly the sympathetic muscles nervous system, thus increasing secretion, and reflexly the activity of unstriped muscle fibre, and so relieve various functional derangements And they educate morbidly affected muscles, to convert abnormal into normal actions, and to suppress useless movements

Dr J Schreiber, in his book (page 67), says "We understand by passive movements all movements performed by the physician upon the patient, the latter remaining passive The following results are obtained

"r Extravasations occurring about dislocated ment treatment, and the use of exercises for general joints are, by pressing and rubbing the tendons and His ligaments in which they are embedded, finally liquefied, and thus more quickly absorbed

"2 In stiffness of joints the contracted muscles and tendons are forcibly but gradually elongated, and any existing exudations or vegetations within the joints are disintegrated and absorbed

"3 By the forcible stretching of the muscles their nerves are likewise stretched, molecular changes "4 Forced extension of the muscles causes press-cure, as Ling called it "Sjukgymnastik," that is

celerating the circulation

neuralgic pains been kept in a state of mactivity, have some of their much-needed exercise restored to Heilmethoden, Berlin, 1882) calls it "Gymnastics them Passive movements thus form in certain dis- and Massage" Schreiber's term is, "Mechano-Thereases, as in neuralgia and rheumatism, the introduc- apy " tion, as it were, for the more painful active motions call it "The Swedish Health gymnastics," but very which have to follow "

Dr J. Graham, "Treatise on Massage," page 23, In 1844 the Supreme Medical Board of Russia appointed two members of the Medical Council to inquire into the merits of movement and manipu- on account of lack of knowledge and part on account lation treatment as practiced by M de Ron, one of of fraud Ling's disciples at St Petersburg, who had been using all embracing term would be "Swedish Movement it then for a period of twelve years From the highly commendatory report of the councillors we quote the are executed by an external agent upon the patient, sion when applied to the muscles in question for the 15 well as active ones produced by the effort of the propulsion of blood, lymph, and exudations from the voluntary muscles, and the different positions with periphery toward the centre the aid of the apparatus or without it, are practiced according to a strictly defined method, and con- in local troubles, such as Neuralgia, muscular rheu ducted rationally, since they are based upon mechanical as well as anatomical principles Experience cerebral congestion, chronic dyspepsia and constipateaches us the usefulness of the institution, as many tion, chorea, writer's cramp, etc. Dr Weir Mitchell, patients thus treated have recovered their health after having suffered from disease which could not be cured eases by Rest," has applied massage, as he says in his by other remedies"

Before speaking about more details of this system, I must say a few words about what is meant by the word "massage" Dr J Graham says to knead or handle—is a term now generally accepted by European and American physicians to signify a group of procedures which are usually done using massage in nervous diseases is of very great with the hand, such as handling, manipulating, rolling, and percussion of the external tissues of the body in a variety of ways, either with a curative, palliative, or hygienic object in view many instances be combined with passive, resistive from Dr Mitchell or assistive movements, and these are often spoken of as the Swedish movement cure There is, however, an increasing tendency on the part of scientific not teach massage" But suppose we admit that men to have the word massage embrace all these varied forms of manual therapeutics, for the reason that the word 'cure,' attached to any form of treatment whatsoever, cannot always be applicable, masmuch as there are many maladies that preclude the possibility of recovery and yet admit of amelioration "

In this I cannot fully agree with the author Mass- by "Swedish movements and massage?" age means kneading, and when we go so far as to say that massage means the handling and manipulation of the flesh as in kneading, pressing, stroking, tapping, etc , I think we have embraced all that can To say that a passive come in under this term movement, such as flexion and extension, or even a duplex movement, is massage or kneading, is too much to say, and has been a source of great harm formance both to patients and to the original Swedish system,

as I shall have occasion to show later on

the word cure" If these men had read little about viz Ling's system they would not have found the word these he subdivided into a number of starting posi-

ure on their blood- and lymphatic vessels, thus ac- "gymnastics for invalids," or better, "the treatment of diseases by movements," which also embraces the "5 Finally, such muscles as have by rheumatic or different manipulations now grouped under the term Rossback (Lehrbuch der physikalishen massage Rothstein, Neumann, Eulenberg and others few take to the term "massage" to mean both manipulations and active and passive movements It is true that we frequently see "movement cure" on circulars and in some books, but the term is used purely I should think that the most correct and and Massage Treatment"

Massage embraces the processes of kneading, press-"All passive movements, or those which ing, stroking, rubbing, tapping, hacking, and percus-

In Europe this is used, combined with movements, matism, sprains, stiffness of joints and tendons, of Philadelphia, in his "Treatment of Nervous Dis-"Fat and Blood," page 71, "to deprive rest of its evils".
This massage consists of gentle but firm rolling, kneading, friction, etc., of the skin and muscles of "Massage the whole body in order to bring about a free circulation of the blood and thereby improve or maintain the nutrition of the muscles No doubt this way of value, but all over the United States we find men and women pretending to give "massage" in the broadest sense of the term as used by Dr Graham Its application should in professionals claim to have received their training

> According to Dr Graham's book, page 34, "Dr Mitchell states over his own signature, that he does some of them have learned from Mitchell's masseurs, still, what do they know? How is it possible that a man who has been taught to use his hands only in a certain way for a special malady can know how to use them, and how and when to apply proper movements in all the different diseases which are treated

Much experience and hard study is required in order, understandingly, to give a full treatment The different manipulations may be for some persons easy enough to learn, but the active and passive movements so indispensable for the cure of certain forms of disease, require and exact knowledge of anatomy and physiology for their proper application and per-

I will now in a few words describe the mode of treatment which Ling systematized Ling distin-"Scientific men will use the word massage to avoid guished between five different fundamental positions, standing, sitting, kneeling, lying and hanging,

tions with the arms, legs, trunk and head, which combined in various ways make nearly 12,000 positions in which the different movements may be either taken or given. And so the number of movements may be said to be endless to suit each particular ailment.

The movements may be spoken of as Strengthening movements, such as flexion, extension, torsion, etc., Stimulating movements as, percussion, vibration, etc., Quieting movements, as rotation, friction, etc., Derivation movements of the extremities, Purgative movements, as kneading, pressing and active movements on the bowels. Some movements have a special effect on the respiration, others on the cuiculation, etc.

To illustrate how these movements are applied in different cases let us take, for instance, a patient suffering from anæmia If he is well enough to sit up, we will give him

- r "Chest lifting," a respiratory movement, the chest is expanded, the inspiration becomes deeper and is followed by a stronger expiration. Thus a greater amount of oxygen is taken in and waste matter given off. This must stimulate the functions of the organs and thus accelerate the process of renewal and an exchange of material in all parts of the body.
- 2 "Foot rotation," to equalize the circulation by increasing the flow of blood to the feet
- 3 "Stomach vibration," which has a direct effect on the stomach and will improve the appetite and the digestion
- 4 "Forward arm rotation," a respiratory movement, which has a similar effect on the first one
- 5 "Trunk rotation," which brings the muscles of the waist and bowels into play and acts on the circulation, especial in the portal system
- 6 "Knee flexion and extension" with resistance This has a strengthening effect on the flexors and extensors of the leg and promotes the circulation
- 7 "Bowel friction," to promote operations of the and all can be relieved "bowels
- 8 "Back percussion," which stimulates the nerve centres

These movements can of course be applied to the patient in different positions according to his strength, and when the patient improves other and more vigorous movements are used — In a case of constitution a prescription of movements like the following would be most effective

- r "Leg flexion and extension," an active movement under pressure on the sacral region and bowels This movement brings into play the flexors and extensors of the legs and has a purgative effect on the bowels
- 2 "Backward leg traction," a duplex movement, alternately from a standing position the patient resisting forwards. Here the muscles of the bowels, the flexors of the thigh and extensors of the calf are in action. Therefore this movement has a purgative as well as a derivitive effect on the organs of the pelvis.
- 3 "Forward trunk flexion," pressure being exerted on the sacral region and the bowels from a lying its highest degree position—active movement

- 4 "Trunk torsion," from a kneeling position—duplex movement
 - 5 "Trunk rotation," from astride, sitting position—passive movement

The third, fourth and fifth movements bring into play all the muscles of the bowels, increasing the circulation of blood in the portal system, they have a good effect on the digestive organs and act purgatively in a measure

6 "Breech percussion, deep," standing position—passive movement This acts on the sacral nerves,

and has a stimulating effect

7 "Bowel kneading and friction," reclined position, with the muscles of the bowels perfectly relaxed—passive This acts directly on the intestines and promotes the operation of the bowels

ffering from anæmia If he is well enough to sit 8 "Vertical arm flexion and extension," sitting position—duplex movement. This has a strengthening effect on the muscles of the arms, chest and test is expanded, the inspiration becomes deeper back, and tends to equalize the circulation of the did is followed by a stronger expiration.

In cases of heart disease movements must be given, which shall diminish the pressure of the blood and decrease the activity of the heart. Inspiration acts as a pump on the circulation towards the heart. Muscle contractions produce a pressure on the walls of the blood-vessels, whereby the blood is forced towards the heart, hence, respiratory and circulatory movements are here of great value.

Dr Gustaf Zander, of the Mechanico-Therapeutic Institute in Stockholm, says "In heart disease, movement treatment is an uninterrupted necessity, at least during the winter. It is a pity for any such patient, who has the opportunity not to use this treatment. It is astonishing what excellent effects, regular, gentle, but many-sided muscular exercises, have on diseases of the heart. Some of these when not too far gone, can be entirely cured, others can be stopped from further development, and all can be relieved."

In scoliosis, in which the muscles on the convex side are weakened and pathologically changed, and the muscles on the concave side normal, it is clear that the weakened muscles on the convex side must be strengthened and developed According to Dr T J Hartelius, the principal of the Central Gymnastik Institute in Stockholm, "The restoration of a pathologically changed muscle cannot be produced by mechanical extensions, but only by muscular ex ercise and electricity" "But," he says, "for the restoration of a curved spine extension is necessary The question is, therefore, whether this can be effected by the organisms own remedies? This is easy enough to prove In mild cases of lateral curvature, where there is not yet any deformity in the vertebre, the spine is straightened at each extension of the back By flexion to the convex side, the spine is not only straightened, but it can be bent so far as to display a curve to the other side cases where the deformity of the vertebræ makes a full extension of the spine impossible, it is still possible by its own strength to produce an extension in For instance, in a "Forward trunk flexion and extension" the patient stands supported on the thighs and bends forward, when he joints are treated on the same plan raises himself up the operator resists him on the neck Or, in "Backward trunk flexion" the patient is lying require a much longer time in order to produce a on the front of his legs, and raises the back up

These, and a few other active movements, can better than any other mechanical remedy, straighten out the curved parts In a one-sided scoliosis, for instance, with the convexity to the left, "lateral trunk flexion to the left" may be given. The optrunk flexion to the left" may be given erator puts his hand on the highest point of the curve, and resists the patient when he bends down This can be performed either with the patient sitting, standing, or lying on his right side Several other movements are also given, with the view and intention of strengthening the muscles on the convex side, and straightening out the spine, and should be used according to the strength of the patient, and the particular shape of the deformity

"The treatment Dr Schreiber (page 86) says of scoliosis by the Ling system, which has scored some of its greatest successes in this very department, requires, however, quite a special study, and can hardly be carried out without both apparatus stood that it is absolutely necessary that the operaand trained assistants" Dr M Eulenberg in "Die Schwedische Heilgynmastik, Berlin, 1853," says "Ling's method is the only truly rational therapeutic means for the cure of chronic disturbances of motivity, such as result from spinal curvature, and for pseudo-anchylosis, the phthisical-tendency, pigeon-

breast, peripheral paralysis, etc

Even in cases of paralysis from lesions of the cord, it may still effect a cure, where all other measures, undertaken after the original disease has run its course, will be found useless Ling's gymnastics have an even greater and more certain effect upon innervation and nutrition, than the common form of gymnastic exercises Spinal (lateral) curvatures, resulting from faulty carriage (in consequence of a preponderance of muscular force on one side of the body), are nowadays never treated by any good orthopædist by any other means than the "Swedish system"

In various joint affections this treatment has been used with great success If may be used to increase the circulation in and around a joint, or to promote absorption and to squeeze exudations out of the joint

In treating a sprain of the ankle we begin with gentle centripetal frictions, commencing at the toes and gradually proceeding upwards as far as the painful spasm reaches, using the finger tips, then the whole surface of both hands As the pain diminishes more and more force may be employed, and when the contraction has so far relaxed as to leave the joint movable, gentle passive flexion and extension, and rotation of the foot should be per-After the second or third sitting the movement of the ankle-joint will generally be quite free and almost painless, then more force may be ap plied and active and duplex movements used Usually the treatment is repeated three times daily Provided there is no fracture, four to ten days is enough to cure the patient, and the sooner treatment is begun the quicker will be the cure

But the hip and shoulder joints are more difficult to treat, and And so on, each different disease has its own cure peculiar treatment

It may be stated as a fact, that not only in the Central Institute in Stockholm, but in a number of Swedish movement institutions in many parts of Europe, that the following diseases have been treated successfully according to this method Chlorosis, anæmia, scrofulosis, scorbutus, different neuralgias, rheumatism, gout, different venous con gestions, adhesions of the pleura emphysema, hysteria, hypochondria, general nervousness, insomnia, epilepsy, paralysis, chorea, writer's cramp, bronchial catarrh, heart diseases, dyspepsia, constipation, hyperæmia of the liver, paralysis of the bladder, disordered menses, prolapsus and adhesions of the uterus, round shoulders, chicken-breast, scoliosis chronic joint diseases, stiff and sprained joints and tendons, hydrarthus, muscular atrophy, and a few

After what has been said, it may be easly undertor should not only be fully acquainted with the movements and their uses in different cases, but should also have a full knowledge of anatomy and physiology, and of the exact character of the disease Still it has happened several which he is to treat times that I have been called in by physicians to treat some of their patients, and when I have asked what the trouble was, I have been told that it was not my business to know

It is cooperation between the medical profession and the gymnastics, which is desirable and necessary in order to produce the best results

[The author then gave a number of cases, illus trating the beneficial effects of massage and move ments]

The following are a few extracts from reports of

the Swedish Movement Institution in Bremen

"Of ten digestive disorders, constipation, cardi six were cured, three algia, flatulency, dyspepsia greatly improved and one improved twenty three

"Of fifty-nine spinal deformities were cured, seventeen greatly improved, fourteen

improved and five still under treatment

"Of six cases of muscular weakness five were

cured and one greatly improved "Of eight rheumatic disorders seven were cured

and one greatly improved "Of thirteen sprains, wrist, finger, knee and ankle being involved all were cured in from four to

The Swedish movement and massage treatment is twelve sittings " well worthy of adoption by the medical profession in

the United States

WEICHARDT (Prager medicinische Wochenschrift) has employed an ice-bag wrapped in flannel, laid over the spleen in typhoid fever, and thinks that a reduction of temperature and a hindrance in the develop Other ment of bacilli resulted

ON THE IMPORTANCE OF PRIMARY SUTURE OF DIVIDED NERVES, WITH AN ILLUSTRATIVE CASE OF SUCCESSFUL SUTURE OF THE MEDIAN AND ULNAR NERVES

Read before the Philadelphia County Medical Society, March 14, 1888

> BY CHARLES B NANCREDE, M D, OF PHILADELPHIA

Although I have a most profound faith in the vis medicatrix naturæ, I still think that Dame Nature should always have fair play in her battle with injury or disease, and this she certainly fails to receive at

the hands of too many practitioners

In a paper published some fifteen years ago I contended that if, with such vascular structures as those of the face, which certainly would unite sooner or later in some sort of fashion, we habitually resorted to suture, merely for cosmetic effects, we were all the more bound to do so for such avascular structures as tendons, which, if they failed to heal well, much more if no union was secured, must entail dis ability or total uselessness of a member Now a days a surgeon who should fail to suture a divided tendon would be considered derelict in his duties manner, I trust that in the near future the general practitioner will be so impressed with its importance that he will consider that his duty is unfulfilled until he, or some surgeon summoned by him, has sutured any divided nerve

It is needless for me to dilate upon the evils con sequent upon the abolition of function of an important nerve, but I would recall to your minds cases which must have occurred in the practice of most of those present, where divisions of even such small trunks as digital nerves have resulted in troublesome

ulcerations, causalgias, etc

Doubtless the indifference of practitioners to wounds of nerves, or, more strictly speaking, their inclination to "leave them to Nature," has ansen from two causes, viz 1, the fear that suturing might in some way determine tetanus, and 2, the well known fact that nerves divided or even excised with the avowed intention of abrogating their function,

too commonly reunite

The first cause should not deter us, as we now know that a suture, per se, can never originate tetanus, while as to the second objection, certain facts which I shall submit for your consideration warrant the conclusion that traumatic divisions of nerves, unless effected by a clean cut-or perhaps ball wounds-involving solely the nerve and little, if any, of the contiguous structures, differ so materially from those purposely effected by the surgeon's knife, that conclusions derived from the result of neurectomies cannot safely be applied to accidental divisions of

Besides, granting that reumon will occur without suturing, as a stitch can do no harm, why not use one, since it will at least conduce to a more rapid

at times occur, and would doubtless be of more frequent occurrence, if sutures were the rule and not the exception

My aim in this brief note is merely to call your attention, as general practitioners in whose hands many of these cases will fall, to the duty of suturing divided nerves as a routine practice, just as you would tie arteries, and to describe a simple, effective

method of carrying out the indication

A critical examination of the histories of nearly all exsections of nerves where reproduction has occurred, will show that they were removed either from a bony canal or from an intermuscular space in which they normally laid, with the minimum of injury to the surrounding tissues Moreover, even when their ends have been turned back and sutured in position or even buried in the surrounding tissues, they have been so secured in the same intermuscular space which the nerve normally traverses In other words, the bony canals and the intermuscular spaces likewise act as moulds which direct the course of the reparative material from the proximal to the distal end of the severed nerve

In extensive wounds, however, this condition does not obtain Intermuscular spaces are dislocated, large masses of scar tissue are formed, so that, instead of the new nerve-tissue being compelled to grow in only one, and that the right direction, it has too often an inseparable barrier interposed, and union

In the case which I now show you,1 the proxima ends of the ulnar and median nerves were directed at right angles to their intermuscular space, and would have been infallibly fixed between the ends of the torn muscles in a dense mass of scar tissues, resulting in permanent loss of power of the member In the seventh month after suture—1 e, the usual period required for the degeneration and regeneration of a nerve, first sensation and then motion returned, until now, although the functions of the member are not perfect, the boy can earn his living, and do nearly all that can be effected by a normal hand and forearm

Further quotation of my own cases or those of other surgeons seems hardly necessary, and such good results as I here show you have been frequently reported

Finally, how should the sutures be passed and what should their material be?

Fine aseptic catgut passed by means of an ordinary sewing needle is to be preferred, but fine aseptic silk can be used, and I myself have resorted to this in an emergency Should the nerve be very much lacerated and frayed out it may, perhaps, be sometimes proper to cut off a portion to gain a clean surface, but this is rarely desirable The needle should be passed from below upward through the proximal end of the nerve at one border, across, and then passed from above downward near the opposite

resumption of function? While primary union of nerves with immediate resumption of function—1 e, in a week or ten days, is a surgical rarity, jet it does

border, entering the needle from 18 to 14 of an inch on his mirror, or on the wall like a calendar." The from the cut end, according to the size of the nerve The needle must now be passed from below upward through the distal portion of the nerve at the border organism called the comma-bacillus, on account of corresponding to the last passage of the needle its peculiar form in cholera through the proximal end across, and made to pierce human intestine, increase rapidly under favorable the nerve from above downward, when the suture will be found to correspond to the free end of the thread in the proximal piece of nerve

Gentle traction with an appropriate position of the member will, by the tying of one knot, accurately approximate the nerve ends, in a word, by this simplc method all the advantages of the two separate sutures commonly recommended are obtained with a far greater degree of security I need not say that people the strictest asepsis should be secured, which is easy enough provided the wounded part, the surgeon's intestinal affection hands and his instruments be strictly cleansed, and the wound be freely irrigated with the bichloride and trolling the disease after it has broken out, we should If the surgeon gets an untartaric acid solution contaminated wound, it is his own fault if he has suppuration, and even with the ordinary run of accidental wounds, if he will thoroughly scrub his hands with a nail brush and hot water, and likewise so treat the parts surrounding the wound, pour boiling water over his instruments, without any further antisepsis, in most cases healing without suppuration can be secured, while the omission of these details will mar results with gillons of mercuric solution flowing over the wound

MEDICAL PROGRESS.

SUBCUTANFOUS SEPARATION OF TRACHEA FROM LARYNY -At the Versammlung Deutscher Naturforscher und Aerzte last September, Noll, of Hanau, reported the case of a workman who received a severe blow on the front part of the neck from a The skin was not wounded, piece of machinery and only a little blood was coughed up The neck was soon very much swollen, and attacks of suffocation soon came on On making a tracheotomy Noll found that the trachea was separated from the larynx, and very much retracted, and that the cricoid and thyroid cartilages were fractured The trachea was drawn up and sutured to the laryna, and a can-Later it could not nula was placed in the passages be removed because it was held in by a cicatricial The usual methods of dilatation failed, contraction and a laryngo fissure was made, in which a Dupuis's The trachea cannula was worn for nine months The patient is and larynx are now grown together in good condition, but his voice is hoarser than before -Deutsche med Wochenschrift, No 52, 1887

PERSONAL HEALTH-RULES IN TIME OF CHOLERA -SANITATSRATH DR PAUL SACHSE, of Berlin, acting on what he believes to be a well-grounded supposition that cholera is due to the cholera bacillus, has distributed in time of cholera, so that "every one cause catarrh of the stomach and intestines, so also, can carry a copy in his coat-pocket, and hang one over-eating and over-drinking are to be avoided

rules that he advises are as follows

Cholera is caused by infection with the microscopic These get into the circumstances, and cause the peculiar symptoms of This begins always with an apparently cholera harmless diarrhea, which continues for several hours before the disease breaks out with force, and becomes dangerous to life

The possibility of infecting one's self in time of cholera with that bacillus is increased a thousand fold by assemblages and intercommunication of The outbreak of the disease is favorably influenced by everything that causes any stomach or

Since we have no absolutely certain means of conespecially beware of becoming infected, and should take all precautions to kill or at least render as harm less as possible the cholera germ before it gets into our bodies, and by a regular mode of living and prudent deportment avoid anything that can disorder the digestive apparatus

Since the cholera germ gets into the stomach through the mouth, and from the stomach into the

intestines, we should take care

I To take only cooked food and drink This is Even the washing, rinsing, the most important rule and bathing water should be free from germs, and the water from the wells should never be used, but

only that from the city pipes

- 2 To keep the body clean, and especially the hands, by frequent washing, especially before meals, and this should be done with disinfecting solutions, such as a 5 per cent solution of carbolic acid (or a 1/3 per cent solution of sublimate), and of this in time of cholera at least a quart should be used for washing the hands
- 3 To live judiciously and carefully in time of cholera, and

a) Not run away!

- b) Not to harbor people from cholera places
- c) Not to visit a house in which there is cholera
- d) Still less eat or drink anything in such a house
- e) Especially, to take nothing, food, linen, laundry, playthings, or anything else, from house in which there is cholera
- f) To avoid in every way anything that may disturb digestion, therefore

Avoid taking cold, and sudden cooling off after

Do not sit up late at night with friends (drinking being heated

cold beer, for example) Do not wear clothing that is very thin, and do not

take off underclothing suddenly On no account bathe in running water Water

courses often bear the germs of cholera Avoid collections of people, fairs, festivals, etc of

4 All kinds of food are to be avoided that may

Every one should take the greatest precaution with regard to what comes into the house

What may one eat and drink? What is forbidden? What allowed?

FORBIDDEN !!

Unboiled water!

Raw meat

Raw milk and raw cream, and sour milk and whipped cream! Butter and buttermilk! Freshly baked bread! All cold soups

Cold, cut meat that has stood for a long time Salads of every kind

Mayonnaise and crêmes

fruit juices Cheese. Cookies Ice

VITOMED

Boiled water, with cognac, ar rac, or red wine Good soda or seltzer water, and natural mineral waters

Red wine Good lager beer Coffee, tea, and cocoa Baked bread must be heated for at least 1/2 hour in the house before it is used! All hot well cooked soups

All hot (boiled, stewed, roast) All cooked vegetables (potatoes, rice, maccaroni, asparagus, green peas, cauliflower, etc.) Raw fruit and unfermented Freshly cooked, warm com potes, Eggs, and food made of eggs Puddings

GOOD DAILY DIET

Morning 1st Breakfast Coffee, tea or cocoa (with or without well boiled milk) eggs, bread (that has been well heated and dried in an oven or stove for ½ hour [in other words, bread that has been cooked a second time]) without butter

2d Breakfast Boullion with egg, bread as above, warm meat, wine

Noon meal Hot soup, boiled or stewed meat, roast meat, vegetables, fresh cooked compote, red wine or good beer

Tea Coffee or tea

Supper Tea, or soup made from the meat left over from the noon meal, with the morning's bread, or warm meat Wine or beer as above

5 Every irregularity of the body should be most strictly guarded against in time of cholera Apparently slight diarrhoea should not be neglected, but a physician should be consulted immediately

Sachse suggests that in case of threatened invasion of cholera these rules should be printed in the news papers, journals, etc , in addition to being printed on slips for public distribution [The more important parts of these rules should be printed in bold blackfaced type The large foreign element in America would render it necessary that these rules be printed in other languages than English For the German, the rules may be copied verbatim from the original? -Deutsche medicinische Wochenschrift, December 22, 1887

CHOLECISTOTOMI WITH RECOVERI -On February 14, M Polaillon reported to the Academy of Medicine of Paris a case of cholecystotomy by M TERRILLON, that was followed by recovery

The patient was a woman, at 24, who had had no

The skin was tended to below the umbilious normal, the umbilical cicatrix regular, and there was no enlarged subcutaneous veins Palpation showed the tumor to be as large as the head of a fœtus, tense, elongated vertically, smooth, and very It did not appear to follow movable transversely Its extent was easily the respiratory movements Its dulness was coexmade out by percussion tensive with that of the hver In other respects abdominal percussion was normal There was no any kind There was some dyspepsia and emacia-The urine was normal It was evident that the tumor was connected with or adherent to the No exploratory puncture was made, but Terrillon determined to make an exploratory lapor-

Operation on November 23, 1886 A median vertical incision was made, about 4 cm long, and afterwards enlarged to 8 cm When the abdomen was opened the lower border of the liver was easily recognized, since it was lower than normal level of the lower border, and attached to the inferior face, was an elongated tumor, which descended very low, had bluish walls, was very fluctuant, and of a cystic appearance The finger introduced into the wound showed that the tumor was a distended gall-bladder Puncture with a capillary trocar gave issue to a liquid as clear as water, but a little thicker, and the last drops of which were of a milky whitness It was then found that in the gallbladder was a gall stone as large as a cherry bladder was now drawn partly out of the abdominal wound, and then opened Its walls were very Hæmorrhage was guarded against by forceps, and the cavity was explored

The first calculus found was easily extracted, though it was adherent to the bladder by a thin The finger carried into the bladder then found, at the far side, the summit, of the cavity, a second calculus imbedded in the mucous membrane It was so deeply imbedded that, at the distance it was from the opening, it was impossible to detach it

The bladder was then drawn further out, so as to lessen the depth of the cavity, when the stone was removed in fragments by means of forceps

Having resected a portion of the base of the bladder, the operator sutured it to the abdominal wall, making a large biliary fistula in which two large drains were placed, and a dressing then applied

In about a month the fistula was so far closed as to admit only a very small filiform bougie flowed abundantly from this orifice, generally between 9 P M and 2 A M—about four hours after the last meal Two cauterizations with the thermocautery caused the fistula to close completely, two months after the operation Meanwhile the patient had gained flesh, and was completely cured

In commenting upon the case M Polaillon says that, generally, the most favorable incision for cholecystotomy is one following the external border previous liver trouble, until she noticed a tumor in of the rectus muscle But in order to have more the right side On examination M Terrillon made room one must sometimes add to this a more or less out a tumor, below the border of the ribs, that extransverse incision a little below the border of the costal cartilages M Terrillon's incision, however, was for an exploratory laparotomy

Opening of the gall bladder may give rise to hæmorrhage, which must be controlled by hæmostatic forceps, or to extravasation of bile, which must arsenic, copaiba, bromide of potassium, nitro be prevented at all hazards by drawing the bladder muriatic acid, henbane, vegetable infusions, pro out and protecting the peritoneum by aseptic longed counter-irritation, electricity, turpentine, iron, Suture of the abdominal wall completes the operation in cases in which there is no calculus When a biliary fistula is established the more pressing danger is passed, and intraperitoneal rupture of the gall bladder is prevented -Bulletin de l'Academie de Medecine, No 7, 1888

TREATMENT OF MEMBRINOUS ENTERITIS -DR W A LDWARDS, of Philadelphia, in an article on membranous enteritis, says We may consider the treatment under two headings the prophylactic and the active, or that which is appropriate during an interval or remission, and that which will resort to during an exacerbation It is during the remissions or intermissions that we can hope to do more for our patient's permanent good than during an actual attack, it is at this time that diet, regimen, and hygiene are indeed the sheet anchors A careful supervision must be had of the patient's daily life, all sources of irritation are to be removed, as hæmorrhoids or uterine disease Easily digested or even pre-digested food should be supplied, and care should be taken that undigested particles of food are not irritating the intestinal canal As constipation usually exists, sometimes to a most stubborn degree, mild saline laxatives are usually most efficacious, or enemata may be resorted to

Exercise for those who can stand it is of paramount importance, this, if possible, should be out Dr Fowler most aptly says he who stints himself in the drinking of water is dirty inside, and he also tells us that we must drink between seventy and seventy-five ounces of water per day in order to make up for the amount which is excreted by the lungs, skin and kidneys, amounting to ninety ounces a day, with the solid food we get but about fifteen ounces Very few persons at home drink as | Sciences, April, 1888 much as that, but should they go to any of the numerous springs, in which our country is so peculnarly rich, drink five pints of water per day, lead a regular outdoor existence, breathe pure air, as many of our springs are situated in most beautiful mountain regions, where the life spent out of doors is most beneficial, the patient will be improved in health, independently of any mineral agent whatever most satisfactory, but in the others, in spite of re-Unfortunately, however, all of our in the water cases will be unable to avail themselves of a course of treatment at the springs, but as there is no doubt that most of the natural mineral waters preserve their value for a long time, we can put patients through a thorough course at their own homes with the additional advantage of having the case under our own supervision

During the acuteness of an attack opium will often be found necessary to afford relief, and possibly to check excessive secretion or hæmorrhage Belladonna in the form of the extract, Dover's L'Union Medicale, No 33, 1888

powder, subnitrate and subcarbonate of bismuth, together with local counter irritation, all tend to abort the paroxysm, or, at least, to shorten its dura The following remedies have been suggested tion cod-liver oil, oxide or nitrate of silver by mouth or by high injections, chloride of ammonium, sulphate of zinc, bichloride of mercury, chlorate of potassium, oxide of zinc, blisters, warm water enemata, nux vomica, ergot -American Journal of the Medical Sciences, April, 1888

LACTIC ACID IN THE DIARRHŒAS OF CHILDREN -Dr G HAYEV, more than a year ago, called attention to the remarkable utility of lactic acid in the diarrheas of children Recently, in a communica tion to the Academy of Medicine (Revue de Therap, February 15), he has renewed his suggestion, and presented new evidence of the value of the remedy He finds that better results are had from larger doses than he formerly advised In the more severe cases he has administered a 2 per cent solution up to twenty teaspoonfuls in the course of twentyfour hours The formula employed by him is the following

Lactic acid (pure) Syrupi Water

The strength of this is about one minim to the The quantity given will vary with the teaspoonful age of the subject and the nature of the attack Sevestre, one of the physicians to the Children's Hospital, confirms the statements of Hayem regard ing the therapeutic power of the remedy in question, and he also finds that a considerable quantity is re The latest experiquired to effect the best results ence demonstrates that a teaspoonful of the 2 per cent solution should be given every five minutes in the worst cases, and from this up to a teaspoonful an hour, the amount required varies with the condi tions present - American Journal of the Medical

ARTHRECTOMY FOR WHITE SWELLING OF THE KNEE -In the Société de Chirurgie on March 7, M Chauvel reported four cases, operated on by DELORME, of Val-de-Grâce, in a period of five months The patients were cured, two with fistulæ, and two In the latter the result seemed to be completely moval of all fungous synovial tissue and all the liga M Chauvel had ments, the cure was not complete seen one of these cases, and thought that surgeons should be very careful about operating on patients TILLAUX thinks that when more than 40 years old the lesion is limited absolutely to the synovial membrane, arthrectomy is indicated, especially in chil dren, in whom resection is a cause of arrest of [In the opinion of development of the limb many good surgeons, a fistula will not remain if the tuberculous material is completely removed] -

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THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession Letters written for publication or containing items of information should be accompanied by the writer's full wame and address, although not necessarily to be published All com caunications in regard to editorial work should be addressed to the Editor

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ANATOMICAL SCIENCE IN THE DISTRICT OF COLUMBIA

House Bill No 5040, for the promotion of anatomical science and to prevent the desecration of graves in the District of Columbia, was discussed in the House of Representatives on March 26, and will, we learn, come up for final action on April 9 Bill is not peculiar in any respect, and differs but little from those now in force in most of the States in which there are medical colleges It provides, briefly, that the bodies of such deceased persons as are required to be buried at public expense shall be delivered to the medical colleges of the District of Columbia, under certain conditions, among which are, that the person thus dead has not requested burial, that public notice shall be given of such death for forty eight hours previous to delivery to the colleges, and that the person was not an honorably discharged soldier or sailor or member of the U S expenses of the transfer of the bodies

At first sight one would not suppose that it would be a difficult matter to have such a wise and neces sary bill pass the House of Representatives ten pages of the Congressional Record, of March 27, in which the discussion on the Bill is printed, show that objections can be and are raised where there is really no room for objections these objections more closely

are to be buried at the public expense are those of poor people, and leaves out of sight the fact that it is just as easy for a poor person to request burial as for an unknown millionaire to do so In fact, the clause, "such deceased persons as are required to be buried at the public expense" is a leveling clause, it effec tually and absolutely shuts out any idea of class leg-And more than this, it assumes, what is islation true, that an unclaimed body, and that of a person that has made no request concerning his remains, is in reality the property of the State, and that the State has a right to utilize for the best interests of The State may bury or cremate such a the public body, as it sees fit, or it may hand it over for proper and legal dissection if the public interests are best subserved in that manner Of all bodies, those that "are required to be buried at the public expense" are the ones to be handed over to the dissecting-rooms in the interests of the public and of humanity

The second objection was that the Bill would not prevent grave-robbing Aside from the fact that a punishing clause for grave-robbing was added to the Bill as an amendment, it would be extremely difficult to find such practice in existence when bodies could be obtained more easily, more cheaply, and with no risk to anyone of being shot or otherwise injured while robbing a grave

Third objection "Human dead bodies are sacred, and should not be mutilated except for necessity ' In the sense in which the word is used here, dissection is not mutilation Medical students do not tear the limbs from a dead body from mere wantonness Each student knows that he has to learn the anatomy of the human frame, and that no material must be wasted Such "mutilation" as is done in dissecting rooms is "for necessity," and it may be, when the student shall hold in his hand the very life of a sick or injured human being, for dire necessity of the "sacred rights" of a dead body are violated in a dissecting-room Even when the grave is robbed, Marine Corps, and that the colleges must bear the it is not the rights of the dead, but of the living, that And while it is a well-settled principle are violated that there is no such thing as property in a dead body, civilized Governments recognize that it is a matter of public policy to allow a right in so far that friends or relatives may claim a body and decently dispose of it Mr McAdoo of New Jersey, was the author of this objection, and he also said "Science, But let us notice in a utilitarian age, selects its victims by reason of their poverty This Bill, with a sort of refine-The first objection was that it was legislation ment of cruelty, prescribes that persons dying in the against the poor That is based upon the assump- almshouses or asylums, unless of their own accord tion that all the unclaimed bodies, and all those that they request the privileges of a Christian burial, shall be handed over to the savage, soulless science of the medical schools " Inasmuch as a dead body-after death-can be neither a victim of anything, nor have poverty nor riches, it is somewhat difficult to see the force of these words And under this Bill, science does not select its material by reason of "poverty," but because there are no friends to claim that body, because the owner of the body did not, before dying, request burial, and because it is necessary for the health and life of all the millions of this country, alive and yet to be born, that some such material be at the command of "the savage, soulless science of the medical schools," and from considerations of public policy and public interests, it is better to take the material mentioned in the Bill than any othercertainly better than to have graves robbed of their contents

"Imagine for a moment," says Mr McAdoo, "a poor, homeless, friendless, suffering man, in the very throes of dissolution, his faculties deserting him, the earth and its ties receding, and just as he is about to penetrate the veil of the tremendous future, he is obliged, in order to preserve his body, the temple of his soul, from a dissecting-table, to collect his thoughts and cite to the attendants, if any there be, an act of Congress passed for the District of Columbia asking that his body may not be handed over to the surgeons to be mutilated after death" It is very difficult to imagine any such thing, if we remember that all the man has to do is to say or indicate that He need not spend he wishes his body to be buried a moment's thought on Congress or any of its acts, or on the District of Columbia

The member from New Jersey says further, in reply to a question as to the necessity for subjects for dis-They have dissected so "I do not know many and for such a long time, and there have been made such perfect charts and casts showing the whole science of anatomy, that it would seem scarcely necessary that this process of dissecting bodies should from an unprofessional view I do not continue see the necessity of continuing it further Scıence will find means to disseminate itself " somewhat difficult to regard anatomical science as a kind of ferment or yeast that can enter a given number of medical students and leaven the whole by a process of self-dissemination Science cannot always disseminate itself without material and assistance, and anatomical science is now before the House of Representatives asking for a legal and unobjectionable means of disseminating itself by the passage of In so far as the dissections that have already been made, and the charts and casts can take

the place of dissections, and as regards the doubts of any further necessity for dissections, it may be said that the same argument may be used for the en tire abolition of Congress There are, apparently, laws, acts, and statutes enough to last the country Why not govern the country for several centuries with these for awhile? Why should school children be made to draw maps, seeing that maps and globes are already in existence? The absolute necessity of anatomical study by means of dissections is so ap parent that it would be a waste of time to discuss We sincerely hope, for the sake of his the matter personal comfort, health, limbs and life, that Mr McAdoo may never fall into the hands of a doctor who has learned his anatomy from charts and casts

"The Bill throws the burden of Fifth objection securing his body from dissection upon the person about to die " After the person is dead what differ ence can it make to him that his body is in a dissect The Bill, and the general custom of ing-room? handing dead bodies over to relatives and friends, are for the benefit of the living, not of the dead It makes no difference to a dead man what becomes of his body, and if he have no friends no one's feelings and sentiments are hurt if the body be sent to a dis Such a bill as the one under consid secting-room eration is an act for the benefit of the living in two It gives assurance to people that the graves of their dead friends and relatives are not violated, and it provides for the living that come under the care of the doctor by giving the medical students the means of learning by actual dissection the structure Such knowlenge cannot be of the human body learned in a practical way, nor for practical purposes, If it could it may be said from any charts or casts to be a matter of certainty that dissection, which is not a pleasant duty, would not be practiced

Sixth objection "Why should this American Con gress suspend the consideration of more important measures and come to a dead stop in order to enact a law of this character?" For the simple reasons that the District of Columbia is under the direct con trol of the American Congress, and that such an act is a necessity for the inhabitants of the District, as To enter one of well as for the medical colleges the medical services of the United States the candi date must pass an examination in practical anatomy In refusing to pass this Bill, therefore, Congress will simply legislate against all students of medicine in the District of Columbia, unless they are allowed to continue to receive their dissecting [material from It would be another case of "bricks The civilized Governments of the grave-robbers without straw"

whole world have long ago recognized the necessity for furnishing dissecting material to medical students. Let us at least keep abreast of the march of civilization. The laws punish a doctor for any mishap arising from his negligence or ignorance, if suit be brought. And the laws should remove all obstructions in the way of the medical student's obtaining a proper and scientific knowledge of his profession. The medical profession of this country, and of the whole world, is a unit in believing that such bills as the one before the House are a necessity.

INVERSION IN SUSPENDED ANIMATION FROM ANÆSTHETICS

In a paper entitled "A very Valuable Lesson for those who use Anæsthetics," read before the Baltimore Academy of Medicine on December 6, 1887, Dr Julian J Chisolm makes a strong argument in favor of treating suspended animation from anæs thesia by suspending the patient with the head downward, and relates several cases that recovered in his own practice under this treatment case particularly, that of a child 3 years of age, upon whom Dr Chisolm was operating for cancer of the left eye, the value of the practice was fully shown, three or four times anæsthesia had to be stopped while the child was held head downwards to ream mate it, and the operation was finally finished with the child suspended in this position so that it might be brought fully under the influence of chloroform without danger In all, the child was suspended in the inverted position for about three-quarters of an hour

Dr Chisolm has used chloroform in about 10,000 cases, and without a death He has had some cases similar to the one mentioned, but they have been revived by inversion He never uses ether, or has not used it once in the last ten years In the administration of chloroform he has certain rules "All clothing must be loose around the neck adults an ounce of whisky is given in advance, but in cases of persons under 30 years of age this cardiac stimulant is omitted, unless the patient be Chloroform is administered with the patient lying on his back, and as soon as narcosis is induced the pillow is taken from under his head, so that he hes in an absolutely horizontal position snoring occur, indicating some difficulty in pharyngeal breathing, the chin is drawn forcibly upward This elevation pulls the anterior wall of the pharyna, with the hyoid bone and the root of the tongue, for-

from the nose into the lungs By this movement of the chin respiration becomes immediately quiet and The pulling of the chin is a much more efficient and convenient means of pulling the root of the tongue forward than by pulling out the tongue with a dressing forceps. It is not always easy at this stage of anæsthesia to get into the mouth, as the lower jaw muscles may not be relaxed tongue forceps is not often at hand, and to tear the tongue substance with sharp-toothed and yet slipping instruments, with the soreness and swelling which subsequently follow, is an abominable practice that The patient's chin and your should be abolished own hands are always present, and it only needs knowledge of the method to apply it, and to secure prompt and speedy relief "

The only inhaler that Dr Chisolm uses is a towel folded in cone form, with the apex of the cone open, so as to permit air to mingle with the chloroform The surgeon watches the face for signs of vapor approaching complication "If the ears remain pink, the heart and lungs must work properly, therefore, there is no need for feeling the pulse Any failure on the part of either of these organs can be seen in the change of the complexion more quickly than it can be felt at the wrist" Of course one point of great safety in ophthalmo-surgical work is the fact, that when anæsthesia is complete the administrator must stop, and get out of the way of the operator, hence, the administration of the anæsthetic cannot be injuriously continued Dr Chisolm has operated for cataract 1,500 times It is wellknown that cataract patients are usually old, and that most frequently they are subjects of decided semile changes, the average age of cataract patients would probably be about 60 years Before cocaine came into use Dr Chisolm gave chloroform in all cataract cases, and must have given it to a large number of patients with fatty hearts When a patient has very feeble heart-pulsation, with irregularity, he increases the amount of whisky administered in advance of chloroform inhalation "I consider it much the safer practice to put whisky into the stomach, where it is ready for use if wanted, and where it can do no harm if it is not needed." In a word, in regard to the selection of cases for anæsthesia, he says "No pathological lesion in any other parts of the body deters me from the use of chloroform should an eye-operation be required "

This elevation pulls the anterior wall of the pharynx, with the hyoid bone and the root of the tongue, forward, making for the air a clear and straight passage have been resuscitated had the surgeon immediately

hung the mammate body up by the feet, instead of "wasting time in applying hypodermic injections, cold-water splashings, spanking, fanning, electricity, or even attempts at artificial respiration or all of these things if you will, but hang up the patient first, and that instantly, as soon as the heart and lungs fail It is the horizontal position that is fatal in chloroform poisoning, and leads to death if the body is kept in it, as all the reports of fatal cases with chloroform show" What Dr Chisolm says agrees perfectly with the results of Nélaton's experiments with chloroformed rats those that, after thorough narcotization, were hung up by the tails would slowly revive, while those left lying on the If, after being hung up, the rat was placed on the table to soon, breathing would again cease, and the rat would die unless suspended again When the rat was not already dead suspension was the only thing that would restore it to life

AN INTLRNATIONAL DENTAL CONGRESS

The Dental Review, of March 15, 1888, in advocating the holding of "An International Dental Congress at Paris, France, in September, 1889," disclaims any intention of interfering with a Section of Dental and Oral Surgery in connection with the Tenth International Medical Congress to be held in Notwithstanding this disclaimer, it is Berlin, 1800 difficult to see how the editor of the Review could more directly and certainly interfere with the organization of an efficient and successful Dental Section of the International Medical Congress in Berlin, than by persisting in his scheme of forestalling it, by a separate International Dental Congress the year The full recognition of properly preceding in Paris educated Dentists by the successful organization of a Section of Dental and Oral Surgery, as a part of the great International Medical Congress at London, in 1881, and its repetition with still greater success as a part of the International Medical Congress at Washington, in 1887, leaves no room for doubt about the purpose of organizing a similar Section in the next Congress at Berlin, and of its permanent recognition as a legitimate department of the great Then why should field of medicine and surgery not every enlightened member of the profession use his influence for perfecting the unity of all the departments, and the promotion of such harmony in the organization as will afford mutual support and There is no interest, social, scientific or practical, to be promoted by an exclu- regular meeting, says the Medical Record, voted

sive International Dental Congress in Paris next year, that could not be more efficiently promoted by a Section of the International Medical Congress the following year at Berlin The published pro ceedings of a Congress of Dentists will reach but few outside of its own members, while the work of a Section becomes a part of the published transac tions of the general Congress, and thus receives a wide distribution to members of all other Sections, and vice versa, the work of all other Sections be comes the property of the members of the Dental So true it is, that cooperation and union imparts strength and diffuses knowledge, while seg gregation and exclusiveness limits both

MEMBERSHIP IN THE ASSOCIATION

As this number of The Journal will be placed in the hands of a large number of medical men that are not members of the American Medical Association, we wish to call attention to the way in which mem bership can be gained

State and County Societies can send a certain number of delegates to each meeting, who thus be come members, and retain permanent membership thereafter so long as their annual dues are paid

Membership can also be obtained by procuring of the Secretary and President of such Societies a cer tificate of membership in good standing tificate, together with the annual dues of five dollars, must be sent to the Treasurer of the Association A permanent membership can be gained in this way at There is no limit to the number of such certificates that the officers of a Society may issue to its members Membership, however gained, entitles one to this weekly journal without extra charge In it are published all the proceedings of the meetings of the Association, all the papers read before its Sections, as well as a very large number of papers from other sources, and editorials, proceedings of the leading societies of this country, foreign and domestic correspondence, book notices, and miscellaneous news

Those desiring to subscribe for The Journal, but who do not wish to become members of the Associa tion, can do so by forwarding to the editor the price of subscription, five dollars

FOREIGN SURGICAL INSTRUMENTS

The New York Neurological Society, at its last

unanimously not to indorse the resolutions of the Georgia State Medical Society, asking for the removal of all duties from surgical instruments and The ground was taken that the charges supplies made against native instrument makers were too in-Surgeons were better temperate and sweeping served by having their instrument-makers at hand rather than in Europe

On the other hand the Medical Society of the County of New York, at the meeting of January 24. Resolved That the Medical Society of the County of New York urge upon Congress that in the cause of humanity the import duty should be removed from all medicines, medical and surgical ap pliances, and every thing used in the treatment and diagnosis of disease

So long as the fact remains that foreign surgical instruments and appliances, at the same price, are far better than those made in this country, it is difficult to see what the character of American instrument makers has to do with the case And while it may be more convenient to have an instrumentmaker just around the corner than in Europe, if we can get the better instrument of foreign make, at a lower price than now, from the shop around the corner. are we not better served? And if this will induce our own makers to make better instruments at a lower price, do we not obtain "the greatest good for the greatest number?"

SURGEON-GENERAL OF U S NAVY —The regular term of service of Dr F M Gunnell as Surgeon-General of the Navy expired on the 26th of March, 1888, and Dr. John M. Browne has been nominated as his successor by the President Dr Gunnell hav ing arrived at the age of 62, and rendered faithful service over 40 years, is entitled to retire with the relative rank of Commodore Dr Brown, who succeeds him, entered the medical corps of the Navy in 1853, and was commissioned as Medical Director in 1878 He is eminently qualified for the important position to which he has been promoted

WILLIAM BENJAMIN GOLDSMITH, Superintendent of the Butler Hospital for the Insane, at Providence, R I, died on March 21 of acute pneumonia, aged He was graduated from the College of Physicians and Surgeons of New York in 1877, and Bloomingdale Asylum

In 1886 he was Insane Asylum at Danvers, Mass He was a most earncalled to the Butler Hospital est, useful, and promising member of the profession.

THE CINCINNATI MEETING OF THE ASSOCIATION. As will be seen from the programme published in this number of THE JOURNAL, the officers of the Association have been diligently performing their The Committee of Arrangements also are to be commended for the zeal they have shown in en deavoring to provide pleasant and convenient accommodations for the meeting of the general sessions of the Association and of its Sections They have also in store a most pleasant social programme, the details of which are not vet officially announced Together with the programme, we publish to-day the arrangements with the railroads for reduced rates, and a list of hotels in Cincinnati, and other information that will be of interest to those about to attend the meet-A very large attendance has been prophesied, and the excellent programme that is offered cannot fail to attract many new members At the last meeting 1,300 were present, we hope this year the number will be increased by at least one-third

CHANGES IN THE FACULTY OF THE MEDICAL DE-PARTMENT OF GEORGETOWN UNIVERSITY -DR JO-SEPH TABER JOHNSON, who has heretofore held the position of Professor of Obstetrics and Gynecology in the Medical Department of Georgetown University, having resigned the Professorship of Obstetrics. the chair has been divided into two separate professorships, Dr Johnson retaining that of Gynecology, while Dr P J Murphy has been appointed Professor of Obstetrics

MEDICAL COLLEGE APPOINTMENTS - Nicholas Senn, M D, of Milwaukee, Wis, has been appointed Professor of the Principles of Surgery and Surgical Pathology, in the Rush Medical College, Frank T Andrews, MD, has been appointed Professor of Histology in the Chicago Medical College, and Henry F Lyster, MD, of Detroit, has recently been appointed to the Chair of Practical Medicine in the University of Michigan made vacant by the death of Professor A B Palmer

THE TEXAS STATE MEDICAL ASSOCIATION WILL soon afterwards became second assistant in the hold its next annual meeting in Galveston, from the After a period of study 24th to the 27th of April, 1888 A full and profitable abroad he was made first assistant, and in 1881, when meeting is expected J F Y Paine, M D, Galves-28 years old, he was made Superintendent of the ton, is Chairman of the Committee of Arrangements

ASSOCIATION ITEMS.

LIST OF OFFICERS AND PROGRAMME

Of the Thirty-Ninth Annual Meeting, to be held in Cincinnati, May 8, 9, 10, and 11

GINIRAI OILICIRS

President —A Y P Garnett, Washington, D C Vice-Presidents -Duncan Lve, Nashville, Tenn, Darwin Colvin, Clyde, N Y, C J O'Hagan, Greenville, N C, A Stidman, Denver, Col

Treasurer -Richard J Dunglison, Philadelphia,

Permanent Secretary -W B Atkinson, Philadelphia, Pa

Assistant Secretary, Joseph Ransohoff, Cincin-

Librarian -C H A Kleinschmidt, Washington, D C

Chairman of Committee of Arrangements -W W Dawson, Cincinnati, Ohio

Sub-Committees of Arrangements

Section-Work, J T Whittaker, Chairman

2 Halls and Decoration, B Stanton, Chairman 3 Entertainments, N P Dandridge, Chairman

4 Exhibits, J C Culbertson, Chairman

5 Programme, J Ransohoff, Chairman 6 Reception, J T Whittaker, Chairman

Finance, S C Ayres, Chairman

8 Registration, Jas M French, Chairman

9 Printing and Invitations, J C Culbertson, Chairman

10 Transportation and Hotel, Geo Purviance, Chairman

PROGRAMME OF GENERAL SESSIONS

The General Meetings will be held in the Cincinnati Music Hall and the Sectional Meetings in adjoining rooms in the same building

FIRST DAY, MAY 8, 11 A M

Meeting called to order by Dr W W Dawson, Chairman of the Committee of Arrangements,

Prayer

Address of Welcome

Announcement of Programme of entire Session Annual Address by President A Y P Garnett, of Washington

Call for volunteer papers and their appropriate

reference

New and miscellaneous business

Notification for the appointment of the Nominating Committee

SECOND DAY, MAY 9, 10 AM

Report of Committee of Arrangements Address on General Medicine, by Professor Roberts Bartholow, of Philadelphia

Annual Report of the Board of Trustees, by J

M_Toner, M D, Chairman

Report of Special Committee on Dietetics

Consideration of proposed amendments to the Constitution

Announcement of Nominating Committee

THIRD DAY, MAY 10, 10 AM

Report of Committee of Arrangements

Address on General Surgery, by E M Moore, M D, of Rochester

Report of Committee on Rush Monument, by A

L Gihon, M D, Chairman

Report of Treasurer, R J Dunglison, M D Report of Librarian, C H A Kleinschmidt, M D Report of Committee on Necrology, by J M

Toner, M D, Chairman

FOURTH DAY, MAY 11, 10 AM

Report of Committee of Arrangements Address on State Medicine, by H P Walcott,

M D, of Boston

Final Report of Nominating Committee

Report of Standing Committee on Meteorological Conditions, by N S Davis, M D, Chairman

Report of Special Committee on Criminality, of Fœticide and Measures for its Prevention

Report of Special Committee on Duties com

monly exercised by Coroners Reports of Secretaries of Sections

New and miscellaneous business

PROGRAMME OF SECTIONS

Section of Practical Medicine, Materia Medica and Physiology

Chairman, -

Secretary-N S Davis, Jr, Chicago FIRST DAY, MAY 8

1 Topic-Pneumonia, Etiology, Pathology and Treatment

a "The Mechanism of Pneumonia and its Treatment," by C W VanBibber, Baltimore

b Henry Hartshorne, Philadelphia

c James L Whittaker, Cincinnati d N S Davis, Chicago

General Discussion

2 "Treatment of Empyema," by Wm C Dabney,

University of Virginia "On the Hippocratic Operation for Empyema,

with Illustrative Cases," by Frank Woodbury, Phil adelphia

General Discussion

4 E O Shakespeare

SECOND DAY, MAY 9

TOPIC-Diagnosis and Treatment of Diseases

a "Some Practical Remarks on Diagnosis of Dis of the Stomach eases of the Stomach," by Dr Wm Pepper, Phila delphia

b F C Shattuck, Boston

c J Adams Allen, Chicago General Discussion

2 "Observations upon Nutrition," (with Especial

¹ The late Dr A B Palmer was Chairman elect of this Section

Reference to Origin of Fat, Urea and Animal Heat,) by Henry C Chapman, Philadelphia

3 "Septic Dysentery," by Bedford Brown, Alexandria, Va

4 "Food in Nervous Affections," by Ephraim

Cutter, New York 5 Morton Prince, Boston

THIRD DAY, MAY 10

1 "Albuminuria and its Relation to Life Insurance," by James Tyson, Philadelphia

2 C W Purdy, Chicago

3 "Evolution of the Cystic Kidney," by I N

Danforth, Chicago

4 a "The Differential Diagnosis between Central Nervous and Peripheral Nervous Affections" b "The Iodoform Cap in Tubercular Meningitis," by E C Spitzka, New York

5 "Cerebro-Spinal Meningitis," by J McFadden

Gaston, Atlanta, Ga

FOURTH DAY, MAY 11

1 "Relation of the Solar Plexus to Certain Obscure Forms of Disease," by J Adams Allen, Chicago

2 "Sympathetic Nervous System in Disease," by

John North, Keokuk, Iowa

"Abortive Treatment of Typhoid Fever," by

L D Woodbridge, Williamstown, Mass

4 "Clinical Experience with so called Typho-Malarial Fever," by J B Marvin, Louisville, Ky

5 H N Moyer, Chicago

"A Second Paper on Naphthol," by J V Shoemaker, Philadelphia

Section on Obstetrics and Diseases of Women

Chairman—Ely Van de Warker, Syracuse, N Y Secretary-E W Cushing, Boston, Mass The Address of the Chairman, "How Gynecology

15 Taught," by Ely Van de Warker, Syracuse, N Y "Separation of the Symphysis Pubis in Labor, and its Treatment," by R B Bontecou, Troy, N Y

"A Plea for Early Operative Interference in Cases of Obscure Pelvic Pain, and Recurrent Attacks of Pelvic Inflammation in Women," by Rufus B Hall, Cincinnati, O

"Exploratory Laparotomy," by Henry O Marcy,

Boston, Mass

"The Management of Extra-Uterine Pregnancy,"

by A M Johnson, Danville, Ky

"Observations on the Technique of Vaginal Hysterectomy, with Report of Cases," by Chas A L Reed, Cincinnati, O

Section on Surgery and Anatomy

Chairman-Donald McLean, Detroit, Mich Secretary-B A Watson, Jersey City, N J

Address by the Chairman, "Some Thoughts on Retrospective and Prospective Surgery," Donald McLean, Detroit, Mich

"The Appendix Vermiformis, its Functions, Pa thological Changes, and Treatment," by Henry Hollingsworth Smith, Philadelphia, and

J Ransohoff, Cincinnati, O, J McI Gaston, At-

Innta, Ga

Discussion

T G Morton, Philadelphia, H C Chapman, Philadelphia, Elisha H Gregory, St Louis, Mo, Reed Brockway Bontecou, Troy, N Y

"Intestinal Obstruction in its Surgical Aspects,"

Chas Bingham Penrose, Philadelphia, and

R Harvey Reed, Mansfield, O

"Rectal Insufflation with Hydrogen Gas as an Infallible Diagnostic Measure in ascertaining the existence of Visceral Injury of the Gastro-Intestinal Canal in Penetrating Wounds of the Abdomen Illustrated by Three Experiments," by N Senn, Milwaukee, Wis

"The Surgical Advantages of the Buried Animal Suture and its Adaptability to Special Purposes," by

Henry O Marcy, Boston

"A New Method of Excision of the Intestine," by Henry H Mudd, St Louis

Discussion

Hunter McGuire, Richmond, Va, PS Connor, Cincinnati, O, S H Weeks, Portland, Me

"Electrolysis as a Prime Agent in the Removal of Nasal and Pharyngeal Neoplasms," by D S Campbell, Detroit, Mich

"An Antiseptic Surgical Cabinet" by H Landis

Getz, Marshalltown, Iowa

Section on State Medicine

Chairman—H B Baker, Lansing, Mich Secretary-S T Armstrong, New York Address by the Chairman, H B Baker

"The Causation of the Essential Fevers," by Vic-

tor C Vaughan, Ann Arbor, Mich

"The Internal Origin of Fevers," by J A Larrabee, Louisville, Ky

"Atmospheric Temperature and Intermittent Fever," by Henry B Baker, Lansing, Mich J N McCormack, Bowling Green, Ky

"Report of Committee on Form of Law for Regulation of Practice of Medicine," by Perry H Millard, Cnairman

A paper by E O Shakespeare, Philadelphia

"Recent Discoveries and Researches with Regard to a Common Cause of certain Infectious Diseases," by C W Chancellor, Baltimore, Md

"Should the National Government Defend our Ports Against the Invasion of the National Enemy, Contagious Disease?" by Benjamin Lee, Philadelphia, Pa.

"House Drainage," by Joseph F Edwards, Philadelphia, Pa

"Cremation of Garbage," by J Berrien Lindsley, Nashville, Tenn

"Eastern Carolina as a Residence for Tuberculous Patients," by J M Baker, Tarboro, N C

"Personal Prophylaxis Against Malarial Disease,"

by Geo H Rohe, Baltimore, Md "Hygnene of Infancy and Childhood," by F B Greenley, West Point, Ky

Section on Ophthalmology, Otology and Laryngology

Chairman-F C Hotz, Chicago, Ill Secretary -- Edward Jackson, Philadelphia, Pa

FIRST DAY

Address by the Chairman, F C Hotz

"Mel motic Disease of the Conjunctiva and Episcleral tissue, with Five Illustrations," by Rob Sattler, of Cincinnati

"Ocular Troubles Influenced by Nasal Diseases,"

by I H Taylor, of Wilkesbarre, Pa

"Binocular Astigmatism," by II Culbertson, of

Zanesville, Ohio

"The 14 Dioptric Cylinder Lens the Most Useful of the 11st of Cylinders," by J J Chisolm, of Bal-

"The Treatment of Strabismus due to Paralysis or Extreme Over correction with Loss of Motion," by 1 le Prince, Jacksonville, Ill

"The Size and Illumination of Test-type," by E

Jackson, Philadelphia

SECOND DAY

"Some Practical Suggestions Regarding Certain Anomalies of the Ocular Muscles," by George T Stevens, of New York

"Gummata of the Ciliary Region," by S C Ayres,

of Cincinnati

"On Nutrition, or the Constitutional Treatment of Diseases of the Ear," by Laurence Turnbull, of Philadelphia

"Some Remarks on Diseases of the Labyrinth,"

by Francis Dowling, of Cincinnati

"The Bougie in Catarrhal Inflammations of the Middle Ear," by W Cheatham, of Louisville

THIRD DAY

"Reflex Nasal Cough, with Report of Cases," by Max Thorner, of Cincinnati

"Reflex Phenomena in Childhood caused by Rhi-

nitis," by J A Stucky, of Lexington

"Naso-Pharyngeal Fibromata," by E F Ingals, of Chicago

"An Interesting case of Fibroma of the Larynx,"

by Jos Eichberg, of Cincinnati

"Tubercular Laryngitis," by W E Welsh, of Marshall, Chicago

Grand Rapids, Mich

"Illustrative Points in the Examination of the Nose and Throat," by Carl von Klein, of Dayton, O

FOURTH DAY

"Tobacco Amblyopia," by A R Baker, of Cleve-

"The Advantages of Leaving One Eye Open durland, O ing the After-treatment of Cataract Cases," by J J Chisolm, of Baltimore

"Staphyloma of the Region of the Macula," by

E Jackson, of Philadelphia
"A Plea for the Better Recognition of the Oculist in the Service of the U S Pension Department," by J W Wright, of Columbus

Exhibition of instruments and apparatus

Section on Diseases of Children

Chairman-F E Waxham, Chicago Secretary—W B Lawrence, Batesville, Ark 1 Foods for Prematurely Born Children, 2 Mixed Diet, 3 Artificial Foods, 4 Feeding in Acute Disease," by C W Earle, Chicago "Infant Feeding Discussion opened by Wm H Parrish, Philadel- Richard Gundry, Baltimore

phia, M P Hatfield, Chicago, J Lewis Smith, New York, Wm Perry Watson, Jersey City, J T Whittaker, Cincinnati, J. H. Ripley, New York, I. N. Love, St. Louis, G. Wheeler Jones, Danville, J. A. Larrabee, Louisville

"Treatment of Pseudo-Membranous Laryngitis" Discussion opened by J Lewis Smith, New York, Fordyce Barker, New York, C W Earle, Chicago,

Wm Pepper, Philadelphia

"Tracheotomy in Pseudo-Membranous Laryngi

Discussion opened by C G Jennings, Detroit, Chas T Parkes, Chicago, I H Hance, New York, J M Keating, Philadelphia, W E Casselberry, Chicago, J H Ripley, New York

"Report on Intubation in Pseudo Membranous Laryngitis," by J O'Dwyer, New York, or F E

Waxham, Chicago

Discussion opened by E F Ingalls, Chicago, M J Stern, Philadelphia, L H Dunning, South Bend, E Denhardt, New York

"The Surgical Treatment of Empyæma," by D

A K Steele, Chicago

"Hepatic Incompetence in Children," by M P

Hatfield, Chicago

"Chorea," by Geo Wheeler Jones, Danville, Ill "Antifebrin as an Antipyretic in the Treatment of Febrile Diseases of Children, with a Report of Fifty Cases," by F J Parkhurst, Danvers, Ill

"Some Points Concerning the Etiology and Treatment of Fevers of Childhood," by J A Larrabee,

Louisville, Ky

Section on Dental and Oral Surgery

Chairman-J Taft, Cincinnati Secretary-E S Talbot, Chicago Address of Chairman, J Taft

"Fracture of the Superior Maxilla and Upper Bones of the Face, Treatment by the Aid of the Inter-dental Splint, with two Illustrations," by John

"Etiology of Irregularities of the Teeth," "Development of the Superior Maxilla in the Idiot, Deaf and Dumb, and Blind and Insane," by Eugene S Talbot, Chicago

"Treatment of Irregularities of the Teeth," by

Geo W Keely, Oxford, Ohio

"Dentogeny," by W C Brittan, Detroit, Mich Discussion of this paper will be opened by M H Fletcher, Cincinnati

"Heredity in its Relation to the Teeth," by A O

Rawls, Lexington, Ky

A E Baldwin, Chicago, Ill

Section on Medical Jurisprudence

Chairman—E M Reid, Baltimore, Md Secretary—C B Bell, Suffolk, Iowa Address by the Chairman of the Section, E M

"Paralytic States, their Relation to Testamentary Reid, Baltimore

Capacity," by E C Spitzka, New York

"Medical Jurisprudence in Relation to Wills," by

"Expert Testimony in Medical Jurisprudence," by

Orpheus Everts, College Hill, O

"Fœticide, its Increase, and Inadequacy of Law for its Prevention and Punishment "by H C Mark-| Seventh streets ham, Independence, Ia

"Some Phases of the Civil Law in relation to the Development of Man," by J W C Cuddy, Balti-

"Some Points in the Medical Jurisprudence of In-

sanity," by E N Brush, Philadelphia

"The Medico legal Relation of the Inebriate to Society," by I N Quimby, Jersey City, N J

"The Influence of Experimental Science upon

Law," by Clark Gapen, Chicago

"The Relation of Meconeuropathia, Opium Toxæmia and the Opium Psycho-Neurosis to Law," by C H Hughes, St Louis

"The Medico-legal Relations of Hysteria," by D

R Brower, Clucago

"Alcoholic Trance, its Medico legal Relations," by T D Crothers, Hartford, Conn

Section of Dermatology and Syphilography

Chairman-L D Bulkley, New York Secretary-F Dunlap, Danville, Ky Address of Chairman, L D Bulkley "The Use of Arsenic in Dermatology," by B M Ricketts

Those desirous of reading papers in any of the Sections should at once send the title of their paper to W W Dawson, M D, Cincinnati, and to the Chairman of the Section in which they wish to read it

RAILROAD ARRANGEMENTS

The Committee on Railroads have secured a reduction on the certificate plan from all railroads en tering the city of Cincinnati The rate will be full fare coming to the meeting of the American Medical Association and one-third fare returning Physicians will please ask for a blank certificate at the railroad office at the time they purchase their tickets, which cer tificate will entitle the holder thereof to a one-third rate returning Drs Geo Purviance and William Judkins are the local subcommittee in charge of railroad and hotel accommodations

HOTELS OF CINCINNATI

Fifth, \$3 to \$5 per day

Burnet House, Vine and Third Sts, \$3 to \$5 per

Grand Hotel, Fourth St and Central Ave, \$3 to \$5 per day

\$1 50 to \$4 per day European plan

Palace Hotel, Sixth and Vine Sts, \$2 and \$2 50

Hotel Emery, Vine St between Fourth and Fifth, rooms \$1 to \$2 50 per day European plan

St Jumes Hotel, Fourth St near Main, \$2 to \$2 50 per day

Dennison House, Main and Fifth streets \$2 and

Walnut Street House, Walnut between Sixth and \$2 and \$2 50 per day

Saint Clair Hotel, Sixth and Mound streets \$3 50 to \$5 00 per day

Hunt Hotel, Vine between Fourth and Fifth streets \$1 75 per day

Crawford House, Sixth and Walnut streets \$1.50

to \$2 oo per day

Geneva Hotel, Sixth and Race streets \$1 25 to Rooms, European plan, 50 cts to \$1 50 per day \$1 00 per day

Galt House, Sixth and Union streets \$1 50 per

The following boarding houses may be mentioned Mrs S G Morris, Seventh and Plum streets \$2 and 2 50 per day

Mrs Rathburn, 119 Broadway \$2 and \$2 50 per day

Mrs W P Knight, 105 Broadway \$1.50 and \$2 50 per day

Mrs Saffern, 88 East Fourth street \$1 50 and \$2 50 per day

Mrs Fennell, 102 West seventh street \$1 50 per day

OBJECTS OF INTEREST IN CINCINNATI

Admission to the following places of interest by simply showing membership cards can be had by members and their wives

The Art Museum in Eden Park Reached by Highland House cars at Fifth and Walnut streets Its attractions vie with the best collections even of the old world, and hours can be profitably spent in its inspection

The Museum of Natural History on Broadway

near Third is also well worthy of a visit

The Zoological Gardens, located in the North part of the city, and covering over sixty acres of beautiful park, is reached by the Cincinnati Northern R R, depot at Court and Broadway, or by the Vine street line of cable cars These gardens, we are proud to say, have the finest collection of animals and birds in this country The pair of giraffes owned by the garden, and the polar and grizzly bears are said to be the finest specimens of these animals m captivity The collection of birds of plumage and carnivorous animals is very large and fine A day Gibson House, Walnut St between Fourth and can be profitably spent in the gardens by delegates and their wives

The Rookwood Pottery, located at 207 Eastern Avenue, is reached by the Elm street line of street The Rookwood was established through the cars The St Nicholas, Fourth and Race Sts, rooms for the manufacture of the finest grades of pottery ware, and especially to cultivate a growing taste for the beautiful in art as illustrated in home adorn-As this industry has been entirely conducted ment by ladies, it will be of special interest to the wives of delegates

The Cuvier Club Rooms, on Longworth near Race, contains a museum of prepared specimens of

fish, birds, and all kinds of game that are well worth visiting

The gymnasium, at corner of Longworth and

Vine streets, is a complete institution

The Public Library and Reading Room, on Vine between Sixth and Seventh, and the Mercantile Library, on Walnut street between Fourth and Fifth, are worthy of a visit and will furnish delegates an opportunity to see the newspapers of their own locality

The Highland House, with its incline plane railroad, affords one of the finest views of the beautiful river and its spans of bridges that it is possible to

obtun

The Cincinnati Hospital, on Twelfth and Central A) enue

St Mary's Hospital, on Betts and Linn The Good Samaritan Hospital, on Lock street The United States Marine Hospital, on East I hard street

The Children's Hospital, on Mount Auburn Longview Insane Asylum, at Carthage on C H

The Ohio River Bridges and the Centennial Expo sition Buildings

SOCIETY PROCEEDINGS.

CINCINNATI ACADEMY OF MEDICINE

Stated Meeting, January 30, 1888 DR GUSTAN ZINKL reported a case of

CASAREAN OPERATION, WITH A DESCRIPTION OF THE SANGER OPERATION

(See p 413) DR C D PALMER said that, having been present at the autopsy, he could testify to the accuracy of the pelvic measurements as reported The pelvis, if classified, might be called a justo-minor, except that the antero posterior diameter of the brim was contracted out of all proportion to the remaining diam-The contraction at the brim was about 2 inches for the conjugate, and I to I 1/4 inches for the oblique diameters In the treatment of pelvic deformities we have at our disposal five different, distinct methods of delivery, viz the induction of premature delivery, the forceps, version, cramotomy, or its improved modification, and Cæsarean section or some of its modifications While these come in conflict in some cases, to a large extent each has a spe-Although the question of cial field of application the induction of premature labor has no direct bearing on this case, at the same time it may be interesting to inquire whether this poor woman could have been delivered of a living child if the condition of her pelvis had been known early enough in pregnancy, or whether, if she had recovered and again become pregnant, could she be delivered per vias of both mother and child, from the 32d to the 36th of election, while craniotomy is the operation of

week of utero-gestation—the earlier the better for the mother, the later the better for the child, cate is paribus Delivery has been induced as early as the 7th lunar month with a living child, with a pelvis as small as 2½ inches conjugate But when we recall that this pelvis was not only so small in the conju gate, but much contracted in all other diameters, it implies that delivery would have to be induced nec essarily earlier than the 7th lunar month, and com pleted, it is not improbable, by the forceps or version, with some delay, and at a time when the child was very young and feeble, it seems merely possible that it could have been born alive, or if alive, for it to live on account of prematurity It is safe to say that the induction of premature labor with a live child in this case was impracticable If this woman had survived and become pregnant again, one of two things would have had to be done the induction of an abortion very early in pregnancy or, better still, the allowing of the pregnancy to go on until term, and then, at a favorable time in labor, to perform abdominal uterine section

This was no case for the forceps, for the range of this instrument is for pelves of from 4 to 31/2 or 31/4 inches conjugate He would not wish to condemn the practice of the gentlemen who used the forceps in this case, hoping thereby they might effect deliv Under the circumstances, a non-acquaintance with the exact pelvic dimensions to be encountered, a lack of knowledge only to be supplied by the ex perience then obtained, almost any obstetrician would have applied the forceps at first, to test what they could do Their application could do no harm, if their use was not unduly and forcibly persisted in Nor was this a case for podalic version of application of version is in pelves with conjugates from 3½ or 3¼ inches to 2¾ inches Version is done with the expectation of delivering a live child, and offers in proper cases a most useful means to improve upon nature's mechanism in head cases, as well as the utilization of additional forces to aid the The conjugate diameter of expulsion of the child the brim is more frequently and decidedly contracted in pelvic deformities than any other Therefore, its measurement has served as the chief guide—the key to the lock of the pelvis A conjugate ranging from 23/4 to 13/4 in is the field of utility of craniotomy and The conjugate of the pelvis under discussion was 21/2 inches, and within this Cæsarean section Manifestly, then, one or the other of these two methods was to be considered A live child at term could not have been delivered per vias natu rales, and if the child was to be saved, Cesarean section offered the only means As a general rule, we say that if the child is dead, with these pelvic measurements craniotomy is the proper resort, and But no absolute or in if alive, Cæsarean section There are excep flexible rule can be laid down Craniotomy under certain circum stances may be best even although the child is alive, and Cæsarean section is to be preferred with a dead child if the pelvic contraction is very great great extent, Cæsarean section is the operation necessity In all cases we are to look first to the mother Her interests are not tantamount, but par-This principle in management, although mother is undoubtedly called upon to sacrifice somewhat of her chances for life that she may have a living child, she should not be asked to sacrifice herlife No woman in parturition should be advised to submit to an operative procedure which places her life in great reopardy for her child's sake, if there is a more favor-Unless there is a reasonable prospect of saving her life as well as the infant's, the Cæsarean section should be ruled out. She has the right to decide

Should craniotomy, then, be abolished? In a recent discussion of this subject, Dr Meadows, one of the most eminent of Great Britain's obstetricians, "Where now is craniotomy?" In reply the speaker would remark that it still lives, and should live Next, then, to the life of the child in determining between these two operations, is the question of the risks of each With pelvic contrac tions not greater than 21/2 in the risks of craniotomy are not greater—less than by Cæsarean section done early very few indeed need die Death after craniotomy is largely due to delays and injuries from other manipulations But the risks very rapidly increase when the contraction extends below 21/2 in Near to 2 in it exceeds those attending Cæsarean All things equal, as to the time of operathe two operations are about the same with a pelvic measurement of 21/2 in Just at this point these two operations, cateris paribus, must come into very severe competition As the mother's interest is paramount, craniotomy is not to be laid aside unless! Cæsarean section holds forth equally good chances The following is a condition in which for her life craniotomy is justifiable although the child is living may be days, the liquor amnu has drained off, the uterine discharges are dark, offensive and unhealthylooking, the feetal head is impacted within the pelvis, or it may be floating above the brim, the cervix is swollen, cedematous and bruised, the vagina swollen and livid, the uterus tetanic, or has ceased to act, the patient exhausted, with anxious facies, fre quent pulse and feverish. This is no very uncommon picture What conditions are these for uterine section? What chance has such a woman to recover Craniotomy, unless the contraction is at or below 21/2 in, offers a far better chance for the mother

Much of the opposition to craniotomy has arisen for two reasons First, because it has been per formed too frequently, and of course unjustifiably But abuse is no argument for total abolition Second, favorable for the section, still, it was probably to be because of the very favorable reports attending Cesurean section, especially in Germany very few others, the recovery has been nearly 80 per did not widely differ

speaks very unfavorably for us Out of nearly 160 cases collected from this country by Harris the rate of recovery is only 375 per cent old, stands to day as strong as it ever did While a ures must not be taken on their face without an inoury into the causes and circumstances attending In the first place, the operations in Germany are done by a few experienced and skilful men Each has had much experience Most of the operations have been done in hospitals with good sur-They have been done early in labor at roundings most favorable times The exact opposite is true, as a rule, in the United States No better proof of the earliness of the operations done abroad can be offered than that, out of 33 cases, 31 children were If we collect the cases in which the born alive operations were done early in the United States, we shall see that the rate of recovery is very good, viz about 70 per cent

Sanger has placed great stress upon his method of While the speaker would not wish to detract one tota of merit justly due this faithful and deserving worker, nevertheless it must be apparent to the careful investigator that his great success is not so much attributable to this, as to the earliness of The Sanger operations in this counthe operations try (5 cases) have all proved fatal, because they The Sanger technique could not nere done late save them, they died in spite of the operation They died in advance of the operation The three great factors of success of Cæsarean section are first, tion and conditions, it may be said that the risks of that it be done early, while the patient's general conditions are favorable, second, it must be done antiseptically, third, the uterine wound must be most carefully sutured The first factor is the most im-Now, this conflict between craniotportant of all omy and Cæsarean section will continue so long as the dangers of the latter exceed those of the former When the technique of the Sanger operation is perfected, when this technique is well understood, when A long, difficult labor, extending over many hours, it the operations are done early, when pelvic deformities in this country are more thoroughly studied and appreciated, then will the section be more frequently made, its rate of success gradually increase, and in the same ratio will the necessity for craniotemy equally diminish Then shall we be obliged to ercounter a fewer number of those dreadful cases where at our first interview we are brought face to face with a parturient woman exhausted after several dajs' labor, a midwise and several practitioners in attendance, each having exhausted himself in fruitless efafter Cresarean section? In what state is such an forts to deliver, with soft parts bruised, swollen and uterus to be cut, to contract, to be sewed, to heal? lacerated, and finally a craniotomy or a section with a forlorn hope The abolition of craniotomy on living children is a consummation devoutly to be wished, but in the present state of affairs it is an advance not yet to be realized

preferred to craniotomy, because the child nas living, hands of Sanger, Martin, Leopold, Credé, and a that border line where the risks of the two operations cent If we contrast this high rate of recovery in an open question whether the woman might not have Germany with the rates in the United States, it recovered under cramotomy Dr Palmer did not

regard this as a proper case for the Porro operation The uterus was in a fair condition for section, and it | Harris is always to be preferred except in those cases where operations, only 54 women (371/2 per cent) recovthe organ is greatly bruised, lacerated, gangrenous or septic These complications may make the Porro Muller operation not only superior but necessary I aparo elytrotomy possesses certain advantages in the diminished risk of a loss of blood, and septic infection, but its technique is not so well understood, nor as easy of execution The improved section is generally preferable. The improved Casarean section is an outgrowth of many improvements in abdominal surgery, running through many years Although the Singer operation has nothing distinctly original due to Singer, but embraces points understood and executed by Muller, Frank, Leopold, Kehrer and others, nevertheless Sanger has formulated to advise the operation that afforded the best chance all these improvements, shown their combined utility, and hence with perfect propriety the operation as no i understood and now recognized as the best, craniotemy, were the true facts presented to her It ought to be called the Singer operation

tion had (to his knowledge) been performed but He was of the opinion that it was not the fault of three times in Cincinnati, once by Dr Walton, on the operators, but the result was largely due to the a dwarf, done early, once by Dr N P Dandridge, prevalent custom of employing midwives in the par-(Inpuro elytrotomy) done late, and finally the one turient stage, a physician not being called in until reported this evening by Dr Zinke All were fatal

DR W II WINNING said that the indications for the operation were accurately given by Dr Palmer The statistics of the Singer method certainly show a great superiority over the old manner of operating, and the results are so brilliant that we may confidently hope to see Casarean section exhibit its triumphs as well as other abdominal operations. We all remember that ovariotomy was at one time bitterly opposed by men high in authority, and whilst it was then often considered unjustifiable, the reverse is now true, it is unjustifiable not to operate if there be any hope of success He could not help being struck, however, with the unfavorable record of this operation in the United States when compared with Ger-This could, however, readily be explained by the fact that the recent records of the Sanger operation are from men well-skilled in abdominal operations, being either professors or their trained healthy uterus Moreover, the patients were seen early, the deformity diagnosed early and the operation performed before futile attempts at delivery had been like his own would hold good made The statistics operation performed secundum artem in this country are based upon operations performed by a large number of men, some of whom perhaps never witnessed or performed a laporotomy before The comparison could not be considered altogether fair, if the average was a general one for all Germany as for the United States, he doubted its being any better than our own He then read the statistics of technique is fully understood the first 50 Sanger operations as published by Credé in the Archiv fur Gynakologie, vol xxx, No 1, in haps unjustly which the percentage of recovery was shown to be not what they should be Whose fault is this? They 72 per cent for all and 88 2 per cent for Germany have their sphere In natural cases, a woman of alone, the United States contributing four cases with ordinary intelligence, properly trained, can unques the increasing mortality in this country as shown by of labor with propriety She should also possess

Dr J Taber Johnson, based upon the record of Dr According to his statement of it of 144 ered, but while the first 50 showed 54 per cent of recoveries, the last 50 showed a favorable result in but 24 per cent These figures might be somewhat modified by the additional cases mentioned by the This record also shows the superiority of the Sanger method over the Porro operation The first 50 Porro operations show 21 recoveries (42 per cent), whilst the Sanger method shows 36 recoveries (72 per cent), a difference of 30 per cent in favor of the latter He felt confident that Cæsarean sec tion would ere long supplant embryotomy of the liv ing child

DR T P WHITE said it was the attendant's duty to both mother and child, but doubted if the mother would ever accept Cæsarean section in preference to is unfortunate for the reputation of Cincinnati that In conclusion, Dr Palmer said that Casarean sec- all three cases operated upon had terminated fatally the woman was exhausted In consequence of such delay the operation could be but a dernier ressort, and the prospect of recovery greatly diminished by reason of the unfavorable local and general condi-In the case under consideration the gangrenous condition of the uterus at the autopsy clearly demonstrates its condition and no wonder the termi In such cases he prefers the nation was in death Porro operation, as he thinks the prospects of recov ery much better

DR GUSTAV ZINKE desired to refer to but a few

1st That gangrenous peritonitis existed cannot be doubted if the character of the pus and pelvic pen At the time of the toneum be at all considered operation however, the parts seemed to be in a per fectly healthy condition The uterus contracted promptly and the placenta was expelled as from a

2d He did not believe that the criticism in refer ence to the advisability of Porro operation in cases True the removal of They were removed to the clinic and the the uterus would act as a safeguard against future But what surgeon would amputate an pregnancies arm or leg to prevent a possible future fracture The aim of surgery is to save and restore if possible to perfection the injured or diseased parts operation is justly limited, to the case described in The Sanger method will be adopted in the essay preference to the Porro operation, wherever its

3d Midwives are blamed for a good many mis-We must all confess that they are He could, however, hardly account for tionably undertake the management of a natural case

are present call for medical aid

peritonitis or cellulitis while Lawson Tait has taught the surgical world to compared, and stock taken of progress or otherwise open the abdominal cavity and remove the uterine appendages or other diseased structure with impunity, that the day is not far distant that will bring us a remedy to relieve reflex phenomena which ap parently reside within the ovaries

FOREIGN CORRESPONDENCE

LETTER FROM LONDON

(FROM OUR OWN CORRESPONDENT)

Female Medical Aid to the Women of India-The Health of Manchester—Surgical Treatment of Empyema - Haya Poison, a New Anæsthetic-Pulsating Tumor of the Orbit, with Protopsis-Foreign Practitioners in Switzerland-Sir Movell Mackenzie-The British Nurses' Association

The third annual report of the association for supplying female medical aid to the women of India. presented to the recent meeting under the Presi-lish free drainage by making a second opening for the future of this important movement scholarships founded by the high priest of the Temple at Baidquath have, it is true, not yet been utilized, will bear Elsewhere, according to the report, evi- with considerable benefit dences are multiplying of the weakening of the ble experienced from the intercostal arteries women of India to hopeless suffering event of last year was the Jubilee collection tions of one lakh from the Maharaja of Jeypore, and £1,890 were collected in England and nearly five lakhs in India already estimated at 30,000 rupees per annum

In spite of able and energetic municipal officers and a liberal expenditure of money on sanitary objects, Manchester, according to the address of Dr cocaine, but lasting eight or ten hours some expressed an opinion that during the last titles of erythrophlerine twenty years there has been some improvement in the physical condition of the work-people of Man-teresting case of pulsating tumor of the orbit with

knowledge of abnormal conditions and where they than the one preceding it, and that the result has been a distinct improvement in the appearance and He concedes that of late, especially in the in the health of both male and female workers hands of Lawson Tait, a la ative in the form of Epsom Ransome urged that accurate measurements should salts has in many instances dispelled the approach of be made every ten years of representative groups of He expressed the hope that, the population at certain ages, so that these could be

Mr Mansell Moullin, speaking recently of the surgical treatment of empyema, said everything pointed, except in children and tuberculous cases, which were expressly excluded, to operation as early as possible He considered primary excision of a rib was hardly ever required, unless the empyema was localized, as India rubber tubes very soon wore the ribs away, so that there was little danger of their being nipped as the thorax collapsed Based on an analysis of thirty-four cases, Mr Moullin considered two tubes must always be inserted, even if they were only a few inches apart, they might be in the same intercostal space, but there must be two for effective The situation he generally chose was in the fifth or seventh interspace in the mid axillary Washing out the cavity was found to be quite unnecessary, if air was allowed to pass freely out and in there was no decomposition, the pus in amount diminished almost to nothing and the cavity rapidly In old cases the first thing was to estabclosed in dency of the Viceroy, abounds in signs of good omen five cases it had been necessary to trephine the ribs, The as the chest wall had practically become a solid bony cuirass In two cases some of the ribs had been resected, in one two inches of four had been removed, as no Hindoo female medical students belonging to in order to allow the thorax to collapse, but the paany of the high castes have been found willing to tient, who had other complications, sank from excome forward and claim them It is a significant haustion ten days after. In the other, portions of fact, however, that a Hindoo lady of Calcutta has two ribs were excised, as the sinus ran rather round founded two prizes for female medical students in the thorax following the direction of those ribs, than memory of her deceased husband, whose name they upwards as in the former case This was attended In no case was any trouprejudices which have so long condemned the native direction in which the sinuses run must in each case The great determine where the ribs should be cut, how many should be removed and how much of each

An English firm has produced another new anæsof half a lakh from the Nizam and Maharaja of Ul- thetic, called Haya poison The substance is of two war, with many large subscriptions from others, have kinds the first amorphous, dark brown externally, been received By means of Jubilee collecting cards | brownish-green on fracture, compressible and powdered only with difficulty, the other almost black, The income of the association is translucent and brittle Experiments having been made with a view to determining the presence of its anæsthetic properties, it was found that Haya poison produced in the cornea anæsthesia similar to that of Ransome to the local Statistical Society, is still the dermically injected it produces in animals a slowing most unhealthy city in the Kingdom-its death rate of the heart's action and paralysis of the extremities, being 60 per cent above the average of twenty-eight | nith subsequently disturbance of the respiratory func-A somewhat better account is to be tions, dyspnœa, convulsions and salivation At presgiven of the twin borough of Salford, which is only ent it is thought that the anæsthetic properties of the 25 per cent behind the same localities Dr Ran- new product are due to its containing minute quan-

Mr Adams Frost has had under his charge an inchester, that the generation now growing up has, on proptosis In answer to questions the man had again the whole, been better fed and less severely worked and again stated that the injury was caused by being

struck by a piece of wood as thick as his thigh and many pounds weight, that it struck him with considerable violence, and that the end was blunt and as This history made the case present large as a fist difficulties as to the exact cause of the phenomena, they being as consistent with an intracranial as with an intraorbital lesion Looking at the pathology of other cases, Mr Adams Frost is disposed to take the view that a fracture has been produced passing across the carotid artery in the cavernous sinus

Sore tribulation has arisen among the British invalids in the Engadine, on account of a decree being suddenly passed by the authorities forbidding any one not armed with a native diploma to practice medicine in Switzerland The flocks of sufferers thus deprived of their regular medical attendants fession, but how long he will continue to carry this burden, we have appealed to our Minister at Berne The decree certainly seems somewhat suicidal, for it is the foreign visitors who have made the fortune of these Swiss health resorts, and if the winter residents are driven to seek fresh fields and pastures new, the legislators responsible for the enactment will find that they have killed the goose that laid the golden eggs

From Berlin it is reported that Sir Morell Mackenzie is looking very careworn and haggard, evidently feeling the heavy responsibility attached to him is stated to be continually receiving letters in which his life is threatened if he does not take his departure from the German capital He is attended by two detectives when he walks by himself in the grounds at-

tached to the palace

The British Nurses' Association is going to establish a register for nurses, which shall be a guarantee to the public that those whose names are on it have received a sufficient amount of training to make them thoroughly efficient G O M

MISCELLANEOUS.

THE INDEX MEDICUS -The number of student physicians in any place can be fairly judged by the number of subscribers to the "Index Medicus" As a matter of curiosity we append the following list of paying subscribers in and out of the United

Memorandum Showing the Number of Paying Subscribers to the "Index Medicus"

Foreign Unsted States Argentine Republic California Australia Connecticut Belgium District of Columbia Canada Denmark Georgia 8 Illinois England Indiana France Louisiana 33 Germany Holland Maine Maryland Massichusetts Ireland 34 7 2 Italy Michigan Japan Peru Minnesota 5 Missouri Russia Nebraska Scotland 78 6 New Jersey New York Switzerland Turkey Ohio -39 Pennsyly ania Rhode Island South Carolina Total, United States and Foreign Vermont Virginia Wisconsin

In addition to these, 100 copies are taken for distribution to the medical officers of the army at special rate, making 463 total

In the home list it is curious to remark that New York his twice as many subscribers as Pennsylvania, and that in Massa chusetts, Maryland, and the District of Columbia, a reading physician does not seem to be a very scarce animal. In the great State of Illinois, with the fermenting mass of commercial nctivity like Chicago, but eight doctors have had pride enough in their country's publication, interest enough in medical set ence, or a love of reading sufficient to warrant their spending ten dollars a year in sustaining the most illustrious medical pub lication in the United States, and nurturing their own souls and bodies by medical culture. Worse than this, a rich State like Kentucky, with cities as large as Louisville, does not even seem to require one copy of the publication

The receipts from the "Index Medicus" to the publisher, are not nearly enough to cover the cost of so extensive a publica Mr Davis deserves the very warmest thanks of the pro do not know It is most extraordinary that he does not in this matter receive better backing. The thanks of the profession are good, but the thanks which do not express themselves in bank-notes are only an exemplification of the old proverb, "Soft words butter no parsnips"-Therapeutic Gazette

DAMAGES FOR DEFECTIVE HOUSE DRAINS -A case of some hygienic and public importance came last week before Mr Commissioner Kerr in the City of London Court sought to recover £25, damages sustained by them by reason of the defendant's misrepresentations as to the state of the drain age at the house occupied by them as tenants at a rental of Lgo 1 year It was stated for the plaintiffs that a distinct as surance was given either by the defendant or his agent that the druns were in perfect order, but soon after the plaintiffs entered into possession they discovered that the drains were defective Some repairs were made, and then came a plague of rats, as many as twenty two having been killed in a fewer number of days. When complaint of this was made to the agent, he philosophically replied that "they would go away in due course." It was also stated that set he result of the manuary state of the house the plaintiffs' boarders became ill and left, and the plaintiffs had suffered loss to the extent of the sum claimed. Mr Commissioner Kerr recognized the claim, and give judgment for the plaintiffs for £10, with costs on the higher scale

THE CROONIAN LECTURES for this year, by Dr Donald MacAlister, will be on "Antipyretics"

ARKANSAS STATE MEDICAL SOCIETY will meet at Fort Smith on April 25, 26, and 27

NORTH CAROLINA STATE MEDICAL SOCIETY will meet at Fayetteville on May 8, 9, and 10

A NATIONAL PHARMACOPCIA —MR S J RANDALI has introduced a bill into the House for appropriating \$5,000 for publishing a National Pharmacopceia, to be edited by two officers of the Marine Hospital Service, and two each from the medical staffs of the Army and Nace. medical staffs of the Army and Navy

THE WESTERN PENNS LVANIA MEDICAL COLLEGE, of Pittsburg, held its second annual commencement on March 24 The degree of M D was conferred on thirty four graduates In the evening a banquet was held

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM MARCH 24, 1288, TO MARCH 30 1888

Major Wm C Spencer, Surgeon, died March 22, 1888, at It Trumbull, Conn Major J P Kimball, Surgeon, granted leave of absence for two months, to take a great about April 20, 200 C O 68 A G

months, to take effect about April 10, 1888 S O 68, A G

O, March 23, 1888
First Lieut W D Crosby, Asst Surgeon, granted leave of absence for two weeks S O 29, Dept Ariz, March 16, 1888
Capt Thomas F Ayfull, Asst Surgeon (retired), died March 12, 1888, at Ft Lee, N J

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ORIGINAL ARTICLES

ANTISEPTIC INHALATIONS IN PULMONARY DISEASES

BY S J RADCLIFFE, M D, OF WASHINGTON D C

MEMBER OF THE AMERICAN AND OF THE BRITISH MEDICAL ASSOCIATIONS AND VICE PRESIDENT OF THE MICROSCOPICAL SOCIETY, OF WASHINGTON D C

In the treatment of pulmonary complaints the tendency at the present time is towards local medi-This arises principally from the general acceptation of the germ theory, which teaches in the this sepsis main that diseases originate from microorganisms, and the belief that from this it must follow, as a necessity, that these microorganisms must be destroyed or rendered harmless to organized tissues, either as a means of cure or as a prophylaxis to such disease It is from the supposition that those microorganisms known as bacilli exist in the lungs in tubercular disease, and that their destruction eventually becomes necessary in order to cure the pathological condition recognized as tuberculosis, that the study of antiseptic or germicidal inhalations have for the past few years received more than usual attention The presence of the tubercular bacillus, made renowned by Koch, has been too frequently verified by competent observers to admit of a doubt as to its reality, nor can there be much less doubt as to the dependence of the phthisical process on the presence of the bacıllus This is now acknowledged by most pathol ogists and bacteriologists At the same time it has been made apparent that the bacillus can be more readily destroyed in a culture fluid than in its habita tion in the lungs In the first place because it can be reached more easily, and in the second place because antiseptics of sufficient power to kill it out of the body would, if applied to it in the lungs, jeop ardize the life of the subject on whom it is found

For these reasons attention has been directed more particularly to the study of means whereby antisep- bacillus is peculiar to the lungs, and peculiar to the lungs more directly, certainly and safely than has disease changes in other parts of the economy, that is to say tion more or less putrefactive or septic according to the

amount or degree of suppuration, or the extent of the virus or poison infused Pavy says, "It is only in the presence of the organisms in question that putrefactive decomposition occurs," and "we are bound by the evidence now before us to look upon putrefaction as the issue of the influence everted by the living organisms to which our attention is being given " (Harveian Oration)

Antiseptic inhalations for the treatment of diseases of the lungs of course presupposes sepsis as their object and aim, and upon this ground is based the theory of antiseptic treatment The object of antisepsis is to destroy or counteract the influence of Whether this sepsis is contained in the bacillus, acting as a direct poison, setting up a peculiar inflammatory process more or less purulent in character, which constitutes the whole of the disease, or in the products of this inflammatory action produced by this or other causes-these forming the medea, the culture beds, or feeding grounds, as is the case with other microorganisms under allied conditions, no one is so far advanced in these investigations to decide There can be no doubt that the tubercular bacillus lives and multiplies under septic conditions All microorganisms thrive best and increase more rapidly during putrefactive changes Bacteria it is said cannot live in healthy tissues, that healthy organisms are able to resist their formation and growth, while dead tissues have no such preventive power, that bacterial growths and the destruction they cause occur mostly in the areas of stasis, where the resisting effort is far below the normal, in localities where there are distinct tissue changes, or accumulations of a character requisite for their growth and increase, that these conditions are not presented when the natural forces and vigor of the constitution are up to a healthy standard, but only when there is actually lowered vitality either from inherited tendencies or from causes accidentally acquired

The teachings of Koch are, virtually, that the tics or germicides may be made to reach it in the lungs in certain conditions of them—as in tubercular hitherto been known It is no part of the object of mation, that the character of the products of such these remarks to discuss the pathology of tubercular inflammation differs from the products of other inconsumption, about which so little is known, but it flammations, and the sepsis or poison is contained in may be said the state in which we find the lungs in the bacillus, which never occurs spontaneously but is this disease is the same we find in other destructive always found in connection with this diseased condi-

It is not germain to the subject whether some dis-

pute or reject this formula or not med the sationale of the whole germ theory, regard- he says, "It appears probable that the lethal influence ing it as absurd or false. There are a few others who of the bacillus is due to the production of certain believe that microorganisms are the result of disease poisonous products. That such a product is separ and not its cause, that each microorganism, bacterium, bacillus or coccus, is peculiar to the disease in which it is found, and the result of the disorganization in such disease, that they are only carriers of frogs, mice, and other animals disease-ptomaines-which are germinated during properties of the product are, speaking generally, decomposition of organic matter. There are still a few others who maintain that it is not the microorgamsms themselves that are poisonous to man but the products to which they give rise, which is chemical in its character, and we are told we must now seek to discover under what conditions and from what substances various microorganisms elaborate poisonous substances and also to determine the composition of these products

The subject is too extensive for ordinary discussion, and as the doubtful points are so much more numerous than the true and reliable ones, it is best to bide the time when it can be elaborated with more satis-The fact is that so many questions have arisen since the first introduction of the recent doctrines of tuberculosis that it is absolutely confusing case, if the active invading area of the diseased por to one who has not given it his whole continuously undivided attention Whatever may occur afterwards bacilli, what treatment can be more rational and there is no doubt in phthisical disease the initiatory step in the pathological process is in the presence of the bacillus The absorption of waste products may be the ulterior effect—this absorption poisoning and priate which neglects to follow this indication? The subduing the whole system under its influence, producing the rapid waste and destruction of the tissues of the body we see in the general emaciation of the the presence of these infective organisms in phthisical

snbject

Phillips, of Edinburgh, "On the Etiology of Phthisis," (read before the Section on General Medicine, International Medical Congress -Medical Times, Oct 1, 1887) asks, what then is the modus oper andi of tubercular bacillus in leading towards death? it the (1) progressive asthenia, (2) loss of hæmatosis, (3) the lighting up of fresh inflammatory foci, (4) the absorption of waste products? Its fatal properties cannot I think be regarded as merely irritant or In all probability they are attributable to a power possessed by it of elaborating new products which are afterwards absorbed? Koch savs we must find the microorganisms in the blood, lymph or tissues We must isolate these microof the diseased man organisms and cultivate them and carry on these pure cultures through successive generations to But in spite of all this if our prove their identity antiseptic inhalations are to be of any avail we must come back to the initial stage when the bacillus first gets its lodgement and begins to work This is the time when treatment would seem to be the more effi-When the virus is absorbed into the blood, lymph or tissues, by way of the lymphatics and bloodvessels, all treatment would by a priori reasoning appear to be useless We cannot, must not wait for this period if we would arrest the phthisical process That the active principle of the bacillus is a virulent Dr Philip (op cit) with the extract of sputa obtained diseases, the hope is that not only may antiseptic in

A few have de- from phthisical patients able from the carefully selected and prepared spu That the product is possessed of well marked tum physiological properties, being eminently toxic to depressant, and more particularly on the heart A large majority of the profession accept the doctrines promulgated by Koch, and it is upon a clear appre ciation of the points enumerated by him that our therapeutics depend If the tubercular bacillus is a septic poison capable of rapid and destructive propa gation in certain conditions of the lungs the ationale of the antiseptic treatment must be accepted as a sine qua non and unequivocally

In a lecture by Dr I Burney Yeo (Brit Med Jour, July 1, 1882) on "Antiseptic Treatment of Pulmon ary Consumption," he says, "If the expectoration of the matters discharged from the air passages of phthisical patients swarm with infective microorgan 1sms as we are assured on the highest authority is the tion of the lung be crowded with these same infective more appropriate than that which aims at destroying the life and activity of these organisms? Indeed I might ask what treatment can be rational or approonly question that admits of argument in connection with the subject are these two. Are we satisfied that lungs and their causal relationship with phthisis have been demonstrated? and second, Have we the means of treating this disease antiseptically—that is to say, do we possess in an appreciable form the agents which will destroy these microorganisms and avert the progress of the disease? If in phthisis, as seems most probable, we have to do primarily with a specific virus or infective organism, and secondly with an inflammatory process excited by it, our treatment must have a two fold objectthe destruction of the virulent agent, and the reduc tion of the accompanying inflammation, and in ac tual practice my own experience certainly shows that the best results follow the combination in treatment of these two ends" And "I know of no disease in which so many various indications arise during its But if pulmonary phthisis be pulmonary tuberculosis, and if tuberculosis depend on the presence of infective organism in the tissues, a rational treatment of phthisis must include the administration of antiseptic agents, or the surrounding our patients with antiseptic conditions

"The term antiseptic in fact presupposes the ex istence of some septic process as we now know to be caused by bacterial growths It has long been thought possible by inhalations of creosote to limit decomposition in the expectoration, but now that the investigations of many observers have shown the constant presence of certain bacteria in phthisical halations control septic processes in dead secretions, but that they may be destructive of those microorganisms which are the root of tubercular diseases in living structures" (S C Smith, M D, etc, Brit Med Jour, Feb, 1884)

Some practical questions arise here for consideration, the most important of which are, first, can we destroy these microorganisms in the lungs with safety to the patient? and secondly, can we reach them by methods in our possession after we have satisfied our-

selves they can be destroyed?

In all investigations tending towards a solution of these problems failures seem to be due in a great measure to causes arising out of misapprehension of the nature of microorganisms-particularly as to their vitality or power of resisting destruction made apparent to us that antiseptics do not act uniformly For instance, we may kill the full grown bacillus and yet they multiply notwithstanding Antiseptics may destroy the parent but fail to kill the By boiling a cultivating fluid containing bacıllı for hours leaves the germs, or spores, untheir multiplying ceases (Tindall) Lex found some bacteria still moving rapidly at a temperature of 120°C Tindall's experiments have shown that there this also seems problematical are stages in the life of the bacteria during which "It has been proven," at about 110° C, or 230° F killed or losing their power of multiplication obvious that all evidence shows that it is impossible either to keep germs out of the body or by antiseptics to kill them "

In some experiments by Koch, in 1882, (Practi tioner) as to the reliability of disinfectants (the spores of splenic fever were generally used) he found carbolic acid in a 5 per cent solution only sufficient to arrest the development of spores after two days, while a 1 per cent solution was sufficient to destroy in two minutes the bacilli themselves A solution of 1 in 850 was sufficient to check the development of the latter The fact was very noticeable that carbolic acid in oil or in alcoholic solutions is absolutely with out effect on the bacilli and spores The spores after 110 days, and 70 days, respectively, in a 5 per cent solution of carbolic acid and oil, and in alcohol, were repeatedly found intact Salicylic acid and thymal showed unsatisfactory results, and even sulphurous acid, under such favorable conditions as are not ob tunable in ordinary practice, fails to destroy the whole of the minute organisms that may be present fever spores (Elliston)

crooorganisms in the lungs by the same means used for their destruction out of the body tions are totally different, and unless we can change the surroundings of the organisms or possess an agent only noxious to them and entirely innoxious to the pulmonary tissue, it would be useless to try such a procedure so manifestly fraught with danger, and predicating, therefore, our knowledge upon what has already been ascertained, it would appear to be entirely unsafe with the means we now possess to destroy germs so deeply imbedded in such delicate tissues without other means, also, to protect the latter from senous injury, or the general system from its toxic result Considering the tenacity with which microorganisms hold on to life—continue their life history—how they resist chemical actions of the most varied kind, it is no wonder that our efforts have been unsuccessful in curing diseases of which they are the integral part by ordinary antiseptic means

But supposing we had this agent especially adapted, a safe and unfailing agent, one particularly destructive to the infective virus, and not injurious, but touched, but if boiled successively at short intervals salutary rather to the lung tissue, do we possess the the young brood are destroyed as they appear, and means to reach it in the terminal bronchi, air cells, or parenchyma of the pulmonary structure? From experiments and from the literature of the subject

During some remarks on pneumatic differentiation they resist almost any degree of moist heat Sander- at the meeting of the American Climatological Assoson puts the death-point of common septic bacteria ciation, held in Philadelphia, May 10-11, 1888, Dr I H Platt, of Brooklyn, said he believed unfounded, says Parkes, "that they can stand a short boiling, two of the claims put forth by Dr Williams and Mr that they can be floated in air-bubbles through vitriol, Ketchum in regard to the Cabinet, the second of that they can be washed with carbolic acid solution which was that the spray or vapor used in conjunction of any strength short of 5 per cent without being with the differential process can be carried further Is it into the air passages, or more thoroughly condensed likely we are capable of destroying organisms which upon them than a spray or vapor could be under are so retentive of their vitality? I think it is quite normal conditions. They cannot, he said, be carried so far, for the reason that the residual air is increased and consequently the inspired air which carries the vapor or spray cannot penetrate so far It is claimed, he said, that the vapors of medicinal substances is condensed in the lungs during the differential process by compression consequent upon the commencement of the respiratory act. This is impossible, he said, first because compression only acts to condense a saturated vapor, and the air passages cannot be saturated with the vapor of a medicinal substance, and secondly, because no greater compression is produced at the commencement of tle expiration under the influence of differential pressure than under other circumstances (THE JOURNAL, May 22, 1886)

Dr Nathan Hill Hassall (Lancet, May 5, 1883), "On the Comparative Inability of Antiseptic Inhalations as at present practiced in Phthisis and other Diseases of the Lungs "defined the scope of the subject of the inquiry, which was, more particularly, Chloride of lime in a 5 per cent solution was also halations in the class of diseases referred to, as carried out by means of different forms of oral or oro-nasal There is sufficient evidence to prove that it would phenol, or carbolic acid, creosote, thymol, and iodine The substances experimented with were be exceedingly dangerous to attempt to destroy millt was shown that in the case of the three first named

substances more than four fifths were still present in the sponge at the end of the inhalation, while it was proved that the iodine on coming in contact with the mucous membrane of the mouth and checks became rapidly converted into an iodide, in which condition its antiseptic properties were of course greatly impared if not destroyed He said, also, that the unrecovered portions might be at least accounted for without supposing they were inhaled, by loss in extraction from the sponges, by loss in condensation of moisture in the inhaler, or the skin of the chin or cheeks, and in the mucous membrane of the mouth and fauces of the person inhaling. He also remarked, that but This pressure is exerted equally in all directions, and little evidence has yet been adduced to prove that any of the substances employed do really make their way into the lungs in any appreciable amount and so reach the seat of the disease

In an address by Dr Hassall, "On Inhalation, more particularly Antiseptic Inhalations in Diseases of the Lungs," read in the Section of Medicine, British Medical Association, 1883 (Bit Med Jour, No-sember 3, 1883), he says "It was with a view to cember 3, 1883), he says obtain evidence on this point that my first endeavors to the respiratory act, impediments either to inspira-I continued the following arrangement were made in imitation, as near as I was able, of natural respiration " It consisted of a syringe of 200 inches capacity, provided with a hollow piston with a valve attachment, a Wolfi's bottle filled with water, or bulb tube filled with spirit, as the case might be, attached to the syringe, the bottle in turn was attached to the termination of the trachea of an unskinned sheep's rapid respiration in this case being from two causes: head and neck with a well-fitting papier maché respirator furnished with the usual cribriform receiver and sponge syringe was intended to take the place of the lungs, and the Wolfi's bottle to intercept any substances used which might pass from the respirator down the trachea, with a view to their subsequent determina-The syringe was capable of being worked at tions the rate of 250 times per hour

The first experiment was with 1/2 gram, equal to about 71/2 grs, of carbolic acid After the rapid action of the syringe for an hour and a half the piston in the bottle was tested by Chandelon's very accurate and delicate process, with the result of finding in it only 0 003 gram of carbolic acid, that is to say, In the case of eucalyptol the faintest possible odor, only recognized with difficulty, was perceptible in the alcohol through which the air was passed With turpentine the spirit was found to possess a decided smell of the oil, though it was obvious that the quantity actually passed was but very mi-With rodine the alcohol did not become colored in the slightest degree, nor did it furnish any evidence whatever of the presence of iodine quotations might be multiplied to show how difficult passages, and this difficulty throws additional light acid, watery vapor, a small quantity of ammonia and on our inquiries in regard to our therapeutic failures If these vapors do not pass into the pulmonary cavity-only, indeed, to the mouth and fauces-we are naturally led to inquire into the cause of the impediment, and the answer to this inquiry would possibly be that there is some vital resisting power which has of gases (Ganot)

been doubtless overlooked Physical forces are always met by physical forces, and the weaker yields to the stronger, let us see if some vital or physical forces are not the foundation for these impediments.

The atmosphere is composed, in round numbers, of 20 volumes of oxygen and 80 volumes of nitrogen, with a trace of ammoniacal gas, and 3 to 6 parts. in 10,000 of its volume of carbonic acid. The height of the atmosphere is estimated at 30 to 40 miles, and its pressure equal to 10 lbs to the square inch pressure upon the surface of a man of medium size. is estimated to be 37,560 lbs, or more than 16 tons the internal air has the same density as the external air, modified possibly only by the difference in temperature, but for all practical purposes they are alike The body being immersed in this vast volume of air, by the immense pressure exercised upon it, has all its open cavities filled as a compensation to the external pressure, and this equable pressure or condensation of the atmosphere renders respiration less difficult. Were it not so there would be constant interruptions tion or expiration, and consequently failure of the lungs to carry out their specific functions Rarefied air has the same proportionate pressure of condensed air, only the pressure being reduced, and the com bined apparatus employed in respiration being re heved of its accustomed weight, carries on the respiratory act with more difficulty, the difficult or more The nose and mouth were covered first, from lessened pressure, and second, from the rarefied air, which contains less oxygen in a given quantity, and therefore requires increased respiratory acts to insure sufficient for oxygenation If we ev haust the air around the body of a person we exhaust the air also in the air passages in proportion, because there must be equalization of pressure in both direc-The fluids then flow towards the surface, following the capillaries of the skin and integument and also the mucous membrane of the air passages

In the respiratory act at or about the ordinary sea level we have the following kinds and quantities of 1, residual air, 2, reserve air, 3, tidal or ordinary breathing air, 4, complemental air In a healthy male of medium stature the residual air which cannot be expelled from the lungs amounts to about 100 cubic inches, the reserve air, which can be ex pelled but which is not changed in ordinary respira tion, amounts to about 100 cubic inches, the tidal air which is changed in ordinary respiration amounts The complemental air to about 20 cubic inches which may be taken into the lungs after the com pletion of an ordinary act of respiration, amounts Inspiration, breathto about 110 cubic inches ing in, consists of the ordinary atmosphere, ex piration, breathing out, of the expelling carbonic conditions the air is the only principle absorbed by Gases mix by the general law of diffusion without chemical action, and the force of diffusion is inversely as the square root of the density

impediment in reaching the lungs by vaporized me dicaments by the ordinary means used for such purpose? Do we see a factor in atmospheric pressure is moist which resists forces to unbalance its fundamental law of equability, in the physiological act of respiration itself, which is dependent upon this law, or in the reckoned among the difficulties of penetration regulated by fixed principle?

cubic inches, and the tidal air only to 20 cubic inches changed at each respiratory act, about eighteen times in a minute This seems to be necessary in order to The largest part of the air, therefore, remains in the lungs, the quantity expired being soon replaced by fresh air How is it possible then to replace this air, except by the complemental air which, by distending the chest to its full capacity by an additional 110 cubic inches, would, if long con tinued, embarrass respiration and cause muscular fatigue or capillary plethora This difficulty of replacing the air contained in the lungs would seem to be a barrier to the introduction of other vapors, unless it could be so mingled as not to interfere with

its due proportion or properties

Gases are bodies whose molecules are in a constant state of repulsion, and are continually tending to occupy a greater space Fluids, as we have said. mix by the general law of diffusion, whose force is inversely as the square root of their densities (Ganot) The denser the gas, by this law, the less is its power of diffusion, and the lighter the gas the so, as fluids are virtually incompressible greater its power of diffusion be necessary, in introducing vaporous substances anto the lungs, to be governed by the law of diffusion the difficulties to their introduction vaporized fluids, and this must be taken into account vaporized fluids, and will be found nearer to the natural process, and more fitted for mingling with the congestion if long continued air of and absorption from the pulmonary cavity

Absorption from the respiratory surface is, of "It is now almost course, undoubted Flint says universally conceded that animal and vegetable emanations may be taken into the blood by the lungs and produce well marked pathological conditions Among the most striking proofs of the absorption of vapors by the lungs are the effects of the inhalation This passes into the blood and manifests of ether its characteristic an esthetic influence almost imme-Experimenters on this subject have shown the lungs and the air passages, but it must be rememto admit of this action

Can we see in all this the cause or causes of the else by these surfaces is unnatural and generally deleterious "

The normal condition of the respiratory surface It is continually bathed in watery vapor, making it always in a state of supersaturation and capable of resisting further moisture This also must be general law of diffusion of gases, which are always density and pressure of the atmosphere, the kinds and quantities of air in the lungs, the influence of the In ordinary respiration we see that the residual air residual air, the reserve air and the tidal air, as also amounts to 100 cubic inches, the reserve air to 100 the complemental air, the law of diffusion of gases, and the degree of moisture and absorption of the that is, only one eleventh of the air in the lungs is respiratory surfaces, must consequently be taken into account in calculating the chances of successful pulmonary therapeutics And therefore, some modirelieve the internal pressure as gradually and little as fications will have to be made in the means employed —in the apparatus and in the medicinal substances employed-so as to adapt them to their state, and condition of vital action

So far as the mechanical means are concerned, there does not appear to be much difference between the results of the simplest and the most complicated The simple oro-nasal respirator has contrivances been just as successful as the close chamber of the pneumatic cabinet Both act on the same principle, the breathing of vaporized substances, with the addition of pneumatic differentiation in the latter, which is not yet proven to be of any especial service action is yet debatable, and equally trustworthy investigators take different or opposite sides in regard to its utility There are very grave doubts whether, by exhausting the air about the patient, it exsanguinates the mucous surfaces It would be rather This law is applicable to the gases contained in the probable that it produces a state of congestion, or, on the other hand, by compressing the air, it can do It would therefore most important part of the discussion is whether it can produce differentiation at all-whether it can make the air surrounding the patient and that in his of gases, which has been heretofore perhaps one of lungs, the external and internal air, to differ in dens-Another thing ity Rarefied air is the same whether in a cabinet or to be considered is that gases are more miscible than in high altitudes, and its breathing qualities are governed by the amount of oxygen it contains in the calculation of the admissibility of either into rarefied air seeks a larger space, the pressure is so the air passages In all cases gases are preferable to reduced that the fluids flow in to fill the space and make compensation for that lost, and would produce

Dr Hosmer A Johnson, of Chicago, in a paper read before the Association of American Physicians, June 2, 1887 (THE JOURNAL), said "The pneumatic cabinet I consider cumbersome and expensive, with nothing especially to commend it in the treatment of pulmonary diseases" This is the general opinion

For the purpose of diffusing antiseptic vapors through the atmosphere the patient breathes Dr Burney Yeo (op cit) says he has found none answer better than the simple perforated zinc respirator the facility with which liquids may be absorbed from which he has contrived, which, he says, practically costs nothing and which, with a little instruction, a bered that the natural conditions are never such as nurse can make in a few minutes, in which, he says, The normal function of the you have the decided gain of being able to apply lungs is to absorb oxygen and sometimes a little ni the antiseptic inhalation almost continually and of trogen from the ur, and the absorption of anything almost any degree of strength. It is made by taking a piece of perforated rine 4 × 6 inches, cutting with the air surrounding the body and that entering the a pair of strong shears one side round and the other lungs is rendered of different densities. There are in four flaps, bending it half oval so as to fit the nose three forms, he says, which for convenience may be and mouth, bending in the flaps so as to form a cage described as positive, negative and alterative. The for the sponge for the antiseptic fluid

that the most effectual and natural method which can be adopted for inhalation is by chambers, the air of which is charged with the antiseptic or other medicament which it is desirable to employ He says the following are the conditions and principles of the construction of a true inhalation chamber 1, the dimensions should be moderate and in some cases even small, 2, the fireplaces and all inlets and out- and by the increased expansion and movement of lets closed, 3, the temperature of the room should the lungs favoring their greater activity and modify-be kept at about 19° C (66° F), 4, the air of the room should be somewhat humid. In regard to the Some of these points made so positively are probmeans whereby the air of the chamber is to be ably open to discussion. He himself combats, as charged with suitable medicaments it occurred to him that, if any substance possessing even a very feeble volatility at ordinary temperature were dissolved and spread over a very large surface, the amount of the substance which would become volatilized would be in proportion to the quantity taken, the extent of the surface exposed, the temperature of the chamber and the amount of moisture therein contained

To test this point 50 grams of carbolic acid (771 gra) were dissolved in water, two Turkish towels being saturated with the solution and exposed to the air of the room at a temperature of 22° C (72° F), the room also containing rather much aqueous vapor At the end of two hours a portion of the air of the room was, by means of a large syringe, drawn through a solution of alcohol, a few drops of which, on evaporation gave with bromine water decided evidences of the presence of carbolic acid, 13 cubic centimetres antiseptic inhalations of the vapor or moisture which had settled on the windows (equal to 200 grs) were collected and were introduced by Dr Bergeon, of Lyons, by gaseous found to contain 0 029 gram of the acid, equal to o 447, or nearly ½ gr After the lapse of forty-eight hours the towels were quite dry, and he was surprised to find they did not possess the slightest smell or One of the towels was then taste of carbolic acid tested and found to contain only 0 07 gram, equal to 1 08 gr —the whole of the acid, 771 grs, with the exception of the small quantity referred to, had dis In the experiment with creasote 1 25 gram, equal to 19 grs, were taken-in one case creasote was placed on the towel without any addition, in another water was used, in a third the creasote was After four hours the cloths dissolved in alcohol From that with the creasote only o 91 gram was removed, from that with the creasote new remedies only to fall back on the old, that I was and water o 41 gram, and from that with the alcohol o 39 gram, amounts which correspond with 14 01, Experiments with 4 31 and 6 or grs respectively thymol gave also analogous results

The pneumatic cabinet, an apparatus of American origin, invented by Mr Ketchum and first introduced by Dr Williams, of New York, for treating diseases of the lungs by pneumatic differentiation, has been differentiation, Dr Platt says, is the process by which require its description here. It was, in brief, as ex-

effect of residual air-pressure upon the periphery of It appears to me, says Dr Hassall, before cited, the body is to increase the expansion of the thorax in inspiration, consequently to increase the amount of residual air By the increased pressure in the lungs it will tend to exsanguinate them and to raise the arterial blood-pressure in the general circulation He believes that such benefit as results from the use of the cabinet is due mainly to the reduction of con gestion in the lungs by the air pressure within them,

before quoted, the claims put forth by Dr Williams and Mr Ketchum first, that the effect of removing a slight pressure from the periphery of the body was radically different from that of increasing the press ure of the air entering the lungs, and second, that the spray or vapor used in connection with the differential process can be carried into the air passages or more thoroughly condensed upon them than a spray or vapor could be under normal conditions

From the large amount of literature on the subject of the cabinet it cannot be said to have increased to a very material extent our facilities in treating diseases of the lungs, over even the condensed air apparatus, the ordinary hand bulb or steam nebalizer, or the common nasal or oro-nasal respirator They all have the same object in view, but none of them, so far, have achieved the success we have been looking for, or that success which is the chief object of

Another mode of reaching the lungs is the method This method, known before on the Conenemata tinent, was first introduced to the profession of England and America through a communication to the British Medical Journal (December 18, 1886), by Dr J Hughes Bennett, who said Dr Bergeon came to see him at Evian les Bains, Lake Gereva, in order to bring under his notice his new treatment of He says phthisis and other pulmonary diseases "When Dr Bergeon first told me that he had discovered a new mode of treatment by which pulmonary phthisis and other pulmonary diseases, asthma, chronic bronchitis, etc , could be cured and nearly always alleviated and retarded in their evolution, I I have so often heard of and tried smiled internally His explanation of his treatment, howincredulous ever, at once dispelled this frame of mind, leaving me with the impression that he had hit upon something absolutely new and of serious import Indeed, I felt bound to admit that he had opened out a new field in pulmonary therapeutics, and that his views deserve and must imperatively obtain serious consideration and trial"

The method of Dr Bergeon is too well known to

sorbed by the intestinal venous system and rapidly a very favorable impression on the mind sulphurous gas its usual shape and softness he had repeatedly witnessed

Dr Bennett says Dr Bergeon claims marvelous therapeutic effects for this medication than 200 cases, although the experiments were made at Lyons, where the climate is bad, the results have some importance astonished him cient time has elapsed to give it extensive trialearnest, intelligent trial by the best observers in lodoform, turpentine and carbolic acid all countries? Let us examine the record even partially, from it we glean the following In 60 cases four kinds treated (Dr Shakespeare examining the sputa) there was no apparent reduction in number or character The good effects in my hands have submitted to the treatment lus of tuberculosis be the real cause, we lack thus made In about 50 per cent the condition has centimetres, 7 cases were treated amelioration In no case was there no result (Cohen) Produced collapse in varying degrees, weak pulse, vomiting, headache It produced no good effect I Toxic symptoms may follow its use, 2, causes Med News) great abdominal discomfort, 3, is in no sense a specific (Shattuck and Jackson) red blood globules, causing great anæmia, vomiting, as those treated with sulphuretted hydrogen (Forch heimer) Sulphuretted hydrogen is toxic to dogs

plained by Dr Bennett, to pass carbonic acid, an a mere mucus, which shows the gas is not inimical innocuous medium, through sulphuretted hydrogen, to this form of organism (Bruen) The perusal of a powerful microbicide, obtained from the water of the discussion at the meeting of the Association of the Eau Bonnes of the Pyrenees, and slowly inject American Physicians on the Bergeon method of this into the intestines, twenty minutes being pre-treating phthisis by enemata of sulphuretted hydroscribed for the slow, gradual injection of 4 litres or gen and carbonic acid, described by Dr Henry Ben-This is well borne by the intestines, is ab- net in The Journal last December, does not leave Between exhaled by the mouth through the lungs. In two or 50 and 60 cases altogether were mentioned, but in three minutes, on applying the nose to the patient's no one do we gather that the improvement was very mouth, the air emitted was found to be tainted by the marked, in a very considerable proportion the treat-Within half an hour after ceasing ment had to be abandoned owing to the occurrence the injection all the gas was absorbed and expelled of colic, diarrhoea, vomiting and collapse (British through the lungs and mouth, the abdomen regaining | Medical Journal, October 17, 1887) And so quot-This, Dr Bennett said, stions might be multiplied indefinitely going to show we have not yet obtained the desideratum in pulmonary therapeutics, and the way is still open for fur-In more ther investigation

The choice of the microbicide or antiseptic is of There are at present a sufficient been successful to a degree that has surprised and number for all ordinary purposes, each having its But what is the verdict after suf-favorites and its proper claim of usefulness favorites are bichloride of mercury, iodine, bromine,

Dr Renzi, of Naples, has employed inhalations of 1 Iodoform and essence of turpentine -20 drops of a liquid containing 1 part of 10doform and 20 parts of spirits of turpentine, 14 patients were 2 Iodine volatilized been reduction of temperature, reduction of expectevery day in a bedroom 30 cubic metres in capacity, toration, very often a complete suppression of bron- in the amount of 0 40 to 2 10 grams, heated in a capchial catarrh, and relief of cough Should the bacil- sule by means of a sand bath, 3 operations were 3 Sulphuretted hydrogen evolved by the far a specific therapeutic remedy, and from my rec- action of sulphuric acid on powdered sulphide of ords it does not appear that Bergeon's method will iron, in such proportion that every cubic metre of help us much with this indication for treatment atmosphere in the chamber should contain 75 cubic been greatly ameliorated, in 25 per cent there was acid made by burning sulphur in a closed chamber, slight amelioration, and in 25 per cent there was slight so that there should be 43 cubic centimetres of the gas in a cubic metre of the chamber Of all the inhalations Dr Renzi decides in favor of turpentine and sulphuretted hydrogen (Lancet, July 25, 1885,

Prof Arnaldo Cantani, of Naples, in view of the Our conclusions are, fact that other bacteria are destructive of Koch's bathat the treatment of phthisis by gaseous enemata cillus, has recently made some experiments relative has had undue value attributed to it, that it is sel- to the therapeutic treatment of tuberculosis by means dom of any benefit, but that it may prove service- of the bacterium termo He first found by experi able in occasional cases (Pepper) Sudden glyco-ment that the bacterium termo, whether inoculated, surir may arise under gaseous enemata (F Billings) inhaled or injected, exercises no baneful influence The effects on the urine are that the sulphates are upon the tissues of living animals He then caused largely increased, and sulph hydrogen was frequently a spray of fluid containing the bacterium to be indetected in the urine in a free state, much oftener haled by a patient suffering from tubercular disease The tonic action of the gas of one lung, whose sputa contained tubercle bacilli causes increased secretion from the gastro intestinal in large quantities as shown by the microscope, and can'l and skin and is lavative, finally impairing the also by the results of injections practiced upon small debility, and a feeble condition (Hutchinson and month, were followed by the rapid improvement of The patients treated with air did as well the patient, especially in the conditions The sputa, examined at frequent intervals, were found to become Is harmless only when injected in small quantities full of bacterium termo, and their injection into the Bergeon finds that the sputum in tuber- lower animals failed to produce tuberculosis (Med cular cases still contains bacilli when it is reduced to News, August 29, 1885) On the contrary, however,

Dr Ballazi has carefully followed the bacterio-therapy details advised by Cantani in 8 cases of advanced phthisis with moderate fever. During the inhalations the sputa were daily examined for bacilli Read before the Philadelphia County Medical Society, March and bacterium termo, with the following results In none of the 8 patients was a diminution of the bacilli demonstrated 2 Fever, cough, and other symptoms were as troublesome during the four or five weeks during which the inhalations were given 3 No arrest or regression of the phthisical process was at any time demonstrable by physical examination 4 In one case diarrhea occurred, which ceased only upon stopping the inhalations 5 After ten to fourteen days the patients objected to the inhalations, and only | held out beyond four or The nauscating smell and taste of the rare malady five weeks (treshly prepared) solution of bacterium termo decreased the appetite, and the strength of the patient also decreased (Med News, July 10, 1886)

At a recent meeting of the Odessa Medical Society Dr Filipovitch, of the Odessa Fever Hospital, made a very instructive communication on six cases of advanced pulmonary phthisis which had been treated by him after the bacterio-therapy method recom mended by Prof Amaldo Contant He obtained pure cultures and aromatized the mixture with one or two drops of peppermint and the patient made to inhale by means of Richardson's spray-producer The inhalations were repeated twice daily. In one of the patients the experiment was given up at the end of a week since the man's state commenced to grow worse from the very beginning, and fever, steadily increasing bronchitis, and hemoptysis, had Three other patients died under treatdeveloped ment, one in fifteen days and another after seven days, and the third after twenty-five days maining two patients left the hospital after treatment for seventeen and fifteen days, respectively Filipovitch came to the general conclusion that "no good whatever may be expected from the treatment of tuberculosis by the inhalation of the bacterium termo" (British Medical Journal, Oct 2, 1886) The conclusions at which we may arrive in analyz ing these remarks are I That we have not yet discovered the ways or means to destroy microorganisms in the lungs in phthisical diseases 2 That our studies probably have not been in accordance with the teachings of physical or vital laws in order to 3 That our failures in inhala fulfil this indication tion therapeutics may be due to misapprehension of the relationship of microorganisms to disease That it would be strange that if in the end we should discover that microorganisms are not carriers of disease, but only the result of putrefaction, whether we find them in the dead carcass on the plains or in the lungs of the refined in luxurious habitations That the object of our treatment should be rather to preserve structures in health than seek to destroy organisms which are not amenable to treatment

Maryland Legislature has just passed a Practice ing one not seldom in grave doubt Act similar to that of Illinois

THE EARLY RECOGNITION OF EXOPHTHALMIC GOITRE (GRAVES' DISEASE)

14, 1888

BY J MADISON TAYLOR, MD, OF THILADFLPHIA

In the paper which I have the honor to read to you to-night, I shall not attempt to do more than call your attention to the importance of early recog nizing a disorder which often eludes one, to point out certain features which should enable us to do so, and to offer an illustration, very briefly, the salient points in half a score of cases

Exophthalmic goitre, or Graves' disease is not a At first it is merely a disorder, but frequently becomes a serious disease, and is known to cause death More often it unfits its victim for active usefulness, or, at least, limits this and sadly disfigures him

Like certain other ailments the outcome of irreglar nervous discharge, what in its incipiency is a very manageable complaint, produces in time a dis astrous effect upon the tissues, and forms a practic ally unconquerable disease

Dr Jonathan Hutchinson says

"Graves' disease appears to me to be of the ut most importance, not only on its own account, but as what we might call a type malady It is the most definite and striking example of which we know, of a severe and protracted malady which, despite its severity and persistence, yet has a natural tendency

In reviewing a large number of cases in the search for a complete symptomatic picture, I find that the most constant early feature is sudden and marked The vaso evidence of loss of nervous equilibrium Hence arise motor nerves seem quite unstrung flushing, sweating, and other skin changes, diarrheea If at this time a careful and transient albuminuria watch be kept, I think we should find irregularities in the action of the pupil

The skin usually loses its healthy hue, grows sallow or dark, and becomes greasy to sight and touch This oily look was present in most of the cases I have seen, though I have not seen it mentioned else Begbie recounts one case of pigmentation, or bronzing of the skin, Reynaud calls attention to vitiligo, and Edward Squire, to a discoloration in an isolated instance The oleaginous appearance seems to me quite constant on face and body less when salt sponging and belladonna form part of the treatment

Gowers calls attention to muscular tremor I have seen this rarely In cases 3 and 5 there is a tremulousness in the voice, which I ascribe to nervousness, yet it is constant

The emotions become often so overwrought that various mental peculiarities excite apprehension Or a wiser person may regard the case as one of pronounced hysteria, and, indeed, all through the MEDICAL PRACTICE ACT IN MARYLAND —The malady hysteria remains present, more or less, leav-

Frequently delusions occur, and these so closely

in unison with the ordinary habits and thoughts of the individual as to render them most difficult of detection (see Case 6)

Dr Hilton Fagge warns us to be on the lookout for "slight cases in which one or two of the cardinal symptoms may be absent throughout" Trousseau also insisted on this point

Von Graefe expresses the opinion that among women it is not rare to find instances of this malady where the only symptoms are disordered action of the heart, not accompanied by valvular trouble or hypertrophy, nor the faulty action of the lid as described by him

Heart disturbance most often leads the sufferer first to seek medical advice The pulse is always quick and irritable, usually intermittent The heartbeats, as a rule, bear surprising relationships to the Overaction of the heart is well known to be a frequent feature of anæmia and chlorosis Begbie thinks it a powerful factor in causing Graves' disease Ross regards the anæmia which is usually present as rather a result

Throughout the whole vascular system there is a manifest lack of tone So constant is this that it may yet be found competent to explain the causation of the disorder Certainly the graver features bear causal relation to this state The vaso motor nerves seem all out of balance, nor can it be confined to one part, though the cervical sympathetic is most prominently involved There are cases where limited areas not governed by the upper ganglia show derangement, as in a woman now under the care of my friend, Dr E T Bruen, where one side sweats from shoulder to toe, and the opposite eye is prominent Arterial tension varies rapidly, and un accountably, hence, the oft complained of noises in the head, amounting at times to terrific roarings (as in Case 5) This may explain the maniacal attacks, as well as blood-spitting, thirst, and transient albuminuria

The heart itself is rarely diseased action in time brings on hypertrophy, more commonly, dilatation It also suffers from the general malnutrition which is noticeable throughout the circulatory system The small amount of structural damage which this viscus sustains is a matter for re mark, however, when the profound functional disturbance is considered Systolic bruits are commonly heard, even over the auricles and the great vessels of the neck Dyspnœa is distressing at times, even early in the history, alarms one who feels naught else to complain of

The thyroid enlargement is liable to appear long before the eyes become prominent, but readily escapes attention It may happen that a sense of constriction is felt when swallowing, especially in men who wear tightly fitting collars Both lobes are, as a rule, enlarged, but if one only, it is generally When recovery takes place, this badge remains to chronicle the victory

The eye prominence is late to appear, as a rule, and it would seem to mark the height of the dis-

pathognomonic, a belated action of the lid in following a downward movement of the ball the lower lid is tardy in following an up glance This obtrusion of the eye-ball is the most picturesque feature, but happily it is not constant, and is often very late It is of both eyes, mostly, but if of one only, again the right suffers Sight is seldom affected, except where the outstanding, unprotected cornea suffers hurt or irritation, then opacities may If errors of accommodation exist, this correction, in my opinion, greatly aids in reducing the exophthalmos Fundus lesions are not characteristic, though pulsation of retinal vessels may serve to confirm suspicions

Knee-jerks are rarely abnormal, often in slight

Electrical examination has been, very recently, shown by Charcot, and confirmed by Vigoroux and Norris Wolfenden, to aid greatly in fortelling the onset of this trouble, the bodily resistance being greatly lessened most peculiarly in this disease This may prove a valuable aid in diagnosis

Case I illustrates extremely well the more distinctive features other than exophthalmos, which is not present-especially the marked vaso motor disturbance

Jennie H, aged 23 years, single, no neurotic history, intelligent, hopeful temperament, somewhat emotional and talkative Vague history of a fall at 21/2 years, followed by a convulsion, and, from time to time, "fits" are described, but not clearly first they seem to have been epileptiform, but later resemble emotional overflow At 14 years had typhoid fever, and for twelve months was "weakly" Some swelling of the limbs noticed—then came a period of good health At 17 years menstruated first, but not regularly for a year or more years began to work in a shoe factory, in a very exposed room, excessively cold in winter, frequently sat in wet shoes all day long At 20 years, after a very painful day from cold, walked home in slush, profoundly exhausted soaked her feet in hot water and went to bed Then followed a nervous chill with throbbing pain at heart-it beat rapidly, an overwhelming sense of suffocation arose that moment the heart has been disordered followed a series of medical pilgrimages to different dispensaries, with small benefit

I think many of her symptoms were, even ther hysterical, masking effectually her real trouble She had hemoptysis, cough, great emaciation, and was treated for phthisis The fits brought her under treatment for epilepsy So far as I can learn, no one noticed anything amiss with the eyes or neck I think there has been at no time exophthalmos, but a peculiar fluctuation in the condition of the pupils, which I infer is not recent The dyspnæa grew worse steadily, till it became impossible to lie in bed, and for six or eight months she slept fitfuly propped up in a chair In May last a profuse blood-spitting prostrated her for four weeks, soon after the urine order Before the exophthalmos, there may gener-very dark, thick, offensive fluid passed During the ally be noted the sign asserted by von Graefe to be past summer was very weak and thin, but attempted

Over-exertion at the wash-tube repeatedly to work bowled her over again, several hiemorrhages followed, and on October 1, she applied to me at the Howard Hospital

I found a very pale, thin woman, suffering great dyspnwa, respiration 24, pulse fairly regular, 130 to 135, coughing incessantly, carotids throbbing wildly, pupils widely dilated, von Graefe's sign ab-There was complete mydriasis, as we found that she now enjoys excellent health The heart was labor- heart trouble, no gottre later, but no fundus lesion ing, loud musical murmur over base, apex beat downward and outward, "bruit de diable" in vessels of neck, thyroid gland enlarged, especially to right side, conveying thrill to hand, neck fourteen and rotic history, one child Two years ago she seemed three quarters inches, skin pale and oily looking, readily sweated, and became chilly, legs odematous, menstruation had been absent for three years, b swels always loose, urine, small amount, bright red | disease with blood, sp gr 1009, no casts, knee jerks excessive in both legs, station bad from weakness

Treatment -The treatment consisted of carefully regulated feeding and rest, to drink plentifully of flasseed tea, iron, in form of Basham's mixture, and digitalis, and hot hip-baths, belladonna plasters to the over-excited heart, later, cod oil and bromides, In a week the pupils became rewith digitalis sponsive to light, cough greatly moderated, the urine only smoky, heart sounds more defined

To be brief, in two months the cough ceased, she could lie comfortably in bed, ate well and slept well, pupils became normal, had two or three "spells"—a little scolding aided these months the girl pronounced herself cured, but she courtesy I was allowed to see her repeatedly She is readily upset by trivialities, twice the pupils have widely dilated on catching a slight cold, and once recently the urine showed traces of albumen menstruation was established twice, and slight showing at other times She can now work at house chores with small fatigue Pulse about 85 to 95,

Case 2 -Mrs H, aged about 28, no neurotic history, two living children, came under my care in 1881 during a miscarriage with adherent placenta A similar disaster had occurred also some months My attention was drawn to a most disbefore figuring degree of exophthalmos This had been observed within a few months by a well-known physician, who also warned her that she could scarcely hope again to bear a living child-probably on accourt of the disorder thus indicated There was then menstrual derangement and great dyspnœa Digitalis and ergot were ordered, also care to avoid exertion, but no clearly defined schedule of living This I supplied and rigidly enforced-insisting upon systematic feeding and rest I also found an irrita ble pulse and temper, muffled heart sounds, etc, but very slight right thyroid enlargement, a markedly livid oily skin, sweating surface, loose bowels, and occasional albuminuria

Under treatment consisting, as stated, of regulated living, digitalis, ergot, along with iron and eight months there remained only dusky skin and tonics and rest gained steadily the eye and lid symptoms These last I felt sure seashore in summer, rapidly picked up flesh and

would improve under use of glasses rightly adjusted -she having a high degree of myopia After some persuasion this was accomplished with most admira bie results, for the exophthalmos materially lessened thereafter

I may say, as a matter of interest, that I have since delivered this lady of three healthy children at term, each of which she suckled for a full year, and There is no

Case 4 -Graves' disease, obscure and abrupt cause, extreme nervousness, cardiac distress, death No autopsy permitted -Mrs S, aged 36, no neu in perfect health, weighed 160 pounds Happily married, surrounded by every luxury and loving Sustained no shock, no fright or exhausting care Fell into the hands of gynecic surgeons, who found displacements and tears, and repaired While sitting in these, as it proved none too well perfect health at a theatre, not in the least excited or especially interested in the play, she suffered a nervous chill, and from that time the disorder rapidly The chills frequently recurred, changing to grew what she described as "waves of feeling up and down the body," on the slightest exertion sense of constriction in chest, and skin broke into a sweat Afraid to step about the room Bowels loose, slept badly, lying awake for hours feeling afraid The disorder was not recognized

Sent to Dr Weir Mitchell with a description of "neurasthenia and heart disease," and through his was a very exciteable nervous woman, rather thin, weighing 110 pounds, with a frightened, restless ex-Eyes slightly prominent, some little slow pression ness of upper lid, injection of cornea, tremor in voice, tremulousness of hands on movement, constantly plucking at bed clothes or handkerchief, or arranging her hair or dress, throbbing carotids, pulse of 125 to 135 lying, and very irregular, loud Bronzed, glistening skin, musical murmur, etc chilly hands and feet, sweats readily, etc Thyroid enlarged almost symmetrically conveying thrill to Some improvement under rest and tonics Another operation was found necessary, and though slight, she sank and died No autopsy allowed

Case 4 -Graves' disease, slight exophthalmos, slight thyroid enlargement, cardiac disturbance, delusions and rapid loss of flesh, cause probably exhaustion from bearing ten children, and precipi tated by sharp dysentery, recovery -(By permission of Dr Weir Mitchell and partly under my care) Mrs J, aged 39 years, family history good, most favorable surroundings, ten children, began a year ago to lose flesh rapidly during severe dysentery, appetite very poor since Slight delusions, vertigo Eyes only noticeably prominent, corneal vessels injected, restless expression, slight tremor, skin clammy and glistening, dyspnœa larged a little, heart noisy, no valve defect, very emotional, albumin and muco-pus in urine Under emotional, albumin and muco-pus in urine Referred to me at

strength there, gained forty pounds scribes herself to be in good health

Case 5 —Graves' disease, slight ophthalmos, slight modative defects, but no fundus lesion thyroid enlargement, cardiac disturbance and tre-mor, improvement —Miss R, aged 25, history good At 10 years had typhoid fever, at 11 very severe dysentery, long in regaining strength, much headface and marked prostration, noticed rapid breathing, soon eyes were remarked as being "curious the ears In 1881 again fell ill In March, 1882, conthat time had much cedema in legs, ordered dig-1883, she saw another physician who relieved the Pulse 128 to 130 uncreasing diarrhoea May, 1881, to May, 1884, menstruated only once, thence irregular till a year ago, since then fairly regular Weight about 135, skin moist and shiny, beads of sweat on upper lip, tremulous lip and tremor in voice, this seems a con stant feature, at times tremor in muscles elsewhere readily, not pale, heart tumultuous, no valve defect, pulse intermittent, one beat in three or seven, very difficult to count Thyroid enlarged sym metrically, well-marked thrill, loud bruit in right neck, buzzing in head, sweats almost constantly, respiration 28, sighing, dyspnœa great on slight exertion, cannot lie in bed at night, bowels loose

Rapidly improved in most respects under treatment by regulated living, digitalis, and belladonna, tonics, iron, etc., salt sponging, hot hip baths, attack of nervousness at night time, sense of great shocks pressure in head and flashes of heat over body, ringing in ears Schweinitz, who found slight hypermetropic astigmatism, no fundus lesion Alternate hot and cold and carefully selected sedative measures water to nape of neck relieved the sounds in head

Is steadily improving to date

Case 6 -Miss D, aged 24, family history decidedly neurotic Mother "queer" At one year scarlet fever followed by water on the brain," soon judgment in selection of cases recovered good health Menstruated at 15

August, 1885 Dysentery

December, 1885 Heart began to alarm her Vertigo sitting or walking, grew weak, short of breath, and extremely nervous, could not sleep, began to groan loudly in sleep, which continued till Skin itches intolerably, sweats readily on recently evertion Roaring noises in the head swelled, also feet-"the buttons were burst from the

Murch, 1886 Neck enlarged In May the eyes started forward Appearance eyes very prominent, sclerotic shows half an inch or more above and below, lids puffed, corneal vessels injected, face bloated and livid, skin greasy

Bowels very loose, tremulous voice Now de- 112 standing Eyes examined by Dr Hansell show some accombuminous Decided delusions No improvement

Case 7 -Miss M D, sister to above, well-grown gul, well till a year ago, when she had "walking typhoid," afterward very weak, fainting spells, ache at 19 years, an illness began by neuralgia in vertigo on walking, sweats readily, constantly chilly, especially the hands and feet Buzzing in Menstruated at 13, but extremely irregulooking," tried to gain strength by exercise in open lar, rarely lasts over two days. Eyes showed no lid sign, no exophthalmos Thyroid enlargement sulted Dr Seguin, who pronounced unfavorably, at right, neck twelve and three-quarters inches Heart quick and feeble, muffled sounds, roaring rtalis, quiet Following November grew much noise over the right clavicle and through the thyroid, better, partly in bedfor several months December, also marked thrill Carotids pulsating visibly Very pale Is improving

Case 8 -Mrs S, aged 46, mother living, a "fidgety" woman, has two children Fairly good health till 1881, when she had typhoid fever, followed by large abscess in the abdomen, opened in two places Treated in the Jewish Hospital shortness of breath began In 1881 a financial blow Exophthalmos slight, von Graese's sign in both eyes, greatly worried her, she would sit and brood over pupils normal, corneal vessels injected, flushes her troubles then the fever Exophthalmos began, along with diarrhoea, sweated a great deal on both Buzzing in the ears Appearance strongly built woman, weight 130 pounds, skin muddy and dusky Left eye very prominent, right less so, lid signs of both eyes Carotids throb moderately Heart sounds clear and distinct, slight bruit been under treatment for eight or nine months Digitalis and iron and belladonna Dyspnæa greatest on cold days Urine at times profuse, no al-Œdema of legs fluctuates Is steadily rebumen menstruation more comfortable In January had an covering, though susceptible to fatigue, cold, and

> I hope to discuss the treatment, on which I have Eyes were examined by Dr de some decided opinions, on another occasion consists mainly of rest, judicious feeding, tonics,

Competent glasses, too, are essential, at times sharp counter-irritation, especially diuretic remedies and attention to the emunctories Galvanism, too, has immense value in some instances, but requires

In brief, whatever measures tend to repair the tone of the vascular system and allay nervous excitability will best bring about gratifying results

ELECTRICITY IN MODERN MEDICINE

Legs Read before the Medical Society of the District of Columbia, December 7, 1887

BY ROBERT REYBURN, M D,

OF WASHINGTON D C.,

PROFESSOR OF PH\Stolog\ and of clinical surgery in howard

About one hundred years ago, a Professor in the Thyroid enlarged University of Bologna, named Galvani, was experiin three directions, most on the right, neck thirteen menting with the nerves of the lower extremity of a reand three quarters inches Heart sounds clear, im cently killed frog He found that by placing a piece of pulse heaving, slight systolic whire Pulse regular, zinc under the upper portion of the nerves, and touch-

ing the upper portion of the nerves with a piece of cop per wire violent contractions of the thigh muscles would immediately ensue Very likely others before him had observed the same phenomenon, and had looked upon it with simple curiosity without caring of the muscles, or in cases that require a stimulating to inquire why this was so Prof Galvani, however, application, yet, after all, the use of this kind of galwas not of this class, and he pondered the matter, as vanism is comparatively limited and insignificant in the presence of his students he over and over compared with the benefits derived from continuous, again repeated his experiments sion was that a mysterious and occult form of animal remedial agent. It is found that by placing the two electricity was produced, having the power to act poles of the battery carrying the galvanic current in upon the nerves, and thence to the muscles of the contact with the external or internal parts of the body, and this force has been called, from its discoverer, Galvanism

Little did Galvani know how far-reaching and wonderful would be the results of the discovery he had made to the comfort, health, and even lives of Another Professor, in a rival Unihis fellow-men versity, that of Pavia, Professor Volta, repeated the give you a sketch of what has been done by Prof. experiments of Professor Galvani and confirmed the Apostoli and others for tumors and morbid conditions facts but could not agree with the explanation given He asserted that the contact of the different metals was the cause of the galvanic current which produced the contractions in the legs of the frog Hot and furious raged the contest between the partisans of the two theories of galvanism for many years, but we now know with certainty that Professor Volta's theory was more nearly the correct one, to this is due the of the uterus, or uterine hyperplasia of various kinds. fact that this force is called, indifferently, galvanic or Space will not permit me to go into details but the voltaic electricity Professor Galvani, the first dis-|final result is that 95 per cent of those persons were coverer, found, like many another man, that his cured, and restored to a condition of usefulness to labors to a great extent were simply the scaffolding their families and to society, and out of the entire upon which others climbed to still higher heights of number only two died during the treatment. These theory of galvanic electricity, and showed that the ever adopted as to attract the attention of physicians amount of the galvanic current present is directly of all countries, and in our own country Drs Marcy, dependent upon and proportionate to the amount of Newman, Cutter, Martin and Garrett have likewise chemical action But the time fails me even to men-adopted it with great success tion the names of the many great men who have devoted their lives to the development of electrical To Ohm we owe the celebrated law of electricity that has brought it from empiricism to those of exact science, and the labors of Seebeck, Oersted, and Ampère have marvellously aided in its develop

But "cut bono," as the Spanish say, is all this history of the progress of galvanism I now turn to what is a much more interesting topic to the layman as well to the medical man, namely, the application of galvanic or voltaic electricity to the cure of disease Most persons know that a galvanic battery, so-called, is composed of plates of zinc, copper, or of other metals that are immersed in acids or chemical solu- and causes its disappearance without the use of the The terminal plates have attached to them knife wires or connecting metallic cords, which are called the negative and positive poles of the battery When galvanic currents can dissolve the substance of tumors we touch or connect the poles of the battery together why do they not dissolve the healthy tissues? The we find that a certain force, namely, the galvanic answer to this probably is, that in the first place current, so-called, is developed capable of producing morbid growths such as tumors and hyperplasia of certain changes in the body If the galvanic current vital organs have not the same resisting power or viis passed through a coul of wire under certain conditality as the healthy parts of the body tions of rapid alterations of the current we have a for instance, is much more easily injured by a blow somewhat disagreeable feeling known by the name or other hurt than the healthy organs It will inflame of the galvanic shock, which is accompanied by vio- or even ulcerate by an amount of violence that would

lent contractions of the muscles of the body While the galvanic shock is a valuable addition to the armamentarium of the physician in treating cases of paralysis accompanied by atrophy or wasting away His final conclu- gentle, yet powerful applications of this wonderful body, that the most powerful effects may be produced. Tumors and neoplasms of all kinds, for instance, may be dissolved without the use of the knife or caustic destructive agents, or in any way injuring the textures or vital organs of the body

In order to show that this is possible, I will simply of the abdomen, more especially in females In his paper read before the British Medical Association, in Dublin, Aug 2, 1887, Prof Apostoli said that during the five years from July, 1882, to July 1887, he had treated 403 patients, and made to these patients 5201 applications of electricity Two hundred and seventyeight of these patients suffered from fibroid tumors Faraday then still farther carned on the results so far surpass any other method of treatment

> It will be necessary to explain to those that have not studied the laws of electricity, that when the positive and negative poles or terminals of a galvanic battery are placed in a fluid it is decomposed and the components of the fluid arrange themselves in a certain order around each pole, oxygen, chlorine, iodine, etc, arranging themselves around the positive pole, and hydrogen, the metals etc, arranging themselves around and in contact with the negative pole Prof. Apostoli, by the use of very powerful currents of electricity, from 50 to 150 milliampères, and sometimes using even as high as 200 milliampères, actually produced a galvano-caustic and electrolytic effect, which effectually dissolves the tissues of the tumor He also uses the electro caustic method

The objection may be raised that if the powerful

not apparently wound the body in the natural or healthy condition Another reason for this exemp tion from injury in the application of these strong currents is the precautions taken in using large electrodes or poles when applying them to the body. As the strength of the current is to a certain extent in pro portion to the square surface of the electrodes or poles if, for example, we apply a certain strength of current to an electrode one square inch in area, by increas when employing the weaker current In order to external electrode is covered with wetted clay, cloth, flannel, wet sponges, etc The negative pole is positive pole on the outer surface of the body adja-The positive pole, you will remember, is always the one by which the electric current leaves the battery, and the negative pole the one by which it reenters it The positive pole has very powerful properties in arresting hæmorrhage from tumors, and hence is frequently applied in that class of cases with very beneficial results

Dr Alfred C Garrett, of Boston, reported to the Ninth International Medical Congress, recently held in Washington, 184 tumors of the breast treated by galvanism, from 1864 to the present time, in his practice One hundred and fifty-seven of these were cured and disappeared entirely Several others did not become quite obliterated and a small lump remained that gave no inconvenience In every case the tumor disappeared or became harmless He also recommends the use of soft, large poles with currents

of from 10 to 50 milliampères Dr Ephraim Cutter reports 400 cases of fibroid tumors treated by electricity, with the greater por tion relieved Dr F H Martin, of Chicago, read a very interesting paper upon the electrical treatment of fibroid tumors, before the Gynecological Section of the Ninth International Medical Congress, and enumerates the following advantages of this method PAPILLOMATOUS CYSTIC TUMOR OF OVARY, WITH

I It is entirely free from danger

It is absolutely painless

It invariably checks hæmorrhage

4 It rapidly reduces the size of tumors

It relieves neuralgic pains

6 It admits of exact dosage, so that we know exactly how strong a current we are using

Dr R Newman, of New York, reported to the Section on Surgery, American Medical Association, which met in Chicago, June, 1887, his record of 100 The concurrent testimony given, and which might be largely in galvanic electricity a most potent remedial agent, which is to revolutionize some of the branches of the healing art.

tion to state that the ampère is the measure of the strength in intensity of the galvanic current imagine the galvanic current flowing along the wires connecting the poles like the flow of water in a river As the water flows along the banks with greater or less friction, the rapidity of the current is retarded or accelerated, just so with the galvanic current It is retarded in its progress more or less, and this resistance to the current we can measure ing the area of the electrode to one hundred square of resistance, or rather rate of velocity, is called the inches we give the current one hundred times as ohm, from the celebrated scientist, and is composed strong with little more disturbance of the parts than of a column of mercury one square millimetre in section and 106 centimetres in length The unit of prevent injury to the external parts of the body the the intensity of the current is the ampère, from the name of the distinguished French electro-physicist

To give this concrete expression, it may be stated usually placed in contact with the tumor and the that an ampère represents the quantity of galvanic electricity generated by the unit of electro-motor cent to the tumor or inserted into the substance of force, the volt circulating in a conductor having the unit of resistance the ohm, during the unit of time The volt is the measure of pressure or difference of potential of the current It has been ascertained practically that this is the quantity of electricity furnished by a Daniels' battery Having now obtained a standard, namely, the ampère, we can measure the intensity of our electric current just as accurately and almost as easily as we can measure a distance upon the earth by the use of the English yard or the French metre The instrument by which this is done I now show you, and it is called the milliamperemetre As its name implies, it is a measure of the intensity of the electric current, and enables us to know just as exactly the dose of galvanic electricity we are administering as we know the dose of medicine we are giving to a patient. It is capable of measuring from one-tenth of a milliampère to 500 milliampères, and is destined to do as much for the application of electricity to medicine as the use of the clinical thermometer has done in accurately determining the amount of fever present in a patient

> A HERNIAL POUCH DEVELOPED IN THE CICA-TRIX OF THE ABDOMINAL WOUND FROM A FORMER OVARIOTOMY

Read before the St Louis Medical Society, March 10, 1888, BY L H LAIDLEY, M D,

Professor of gynecology beaumont medical college Surgeon to PROTESTAL T HOSPITAL CONSULTANT TO ST LOUIS
FEMALE HOSPITAL

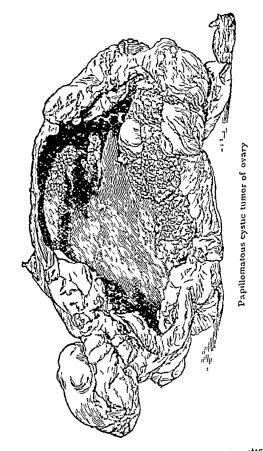
Mrs C, æt 39, American, married, had one child cases of stricture, making 200 in all, which have tory She was of healthy parents, menstruated at which is now eight years old, gave the following his-14 years, was a healthy gul, marned at 22 augmented if necessary, shows clearly that we have the left side (it was a large, multilocular, benign ovarian tumor) One year after the operation she was delivered of a child at full term The recent I have mentioned several times the words ampere nial pouch, which allowed the bowels to protrude, operation and the pregnancy developed a large herand milliampere, and it may be necessary in explana- forming a tumor as large as a child's head at full

period herma in position, and for the past two years she measurements before operation were seven inches was confined to the house. Eleven months prior to by four and a half inches, a portion of the mesenmy first visit another tumor made its appearance, tery was attached to the cicatrix of the old wound, beginning in the right iliac region, it developed rap- and it was ligated, cut and returned to the abdomen idly, occupying a position on the right side which The cavity was thoroughly cleansed of blood, the could readily be felt through the hermal sac months after its first appearance a "magnetic doctor" was allowed to treat the case, which he did by "the laying on of hands," in this case rather roughly, as the results will show This doctor claimed "to coax the fluid out through the Fallopian tubes" When the tumor was pressed upon the patient noticed a great rush of water with blood from the vag-This was repeated some time afterwards with the same results, the tumor almost disappearing

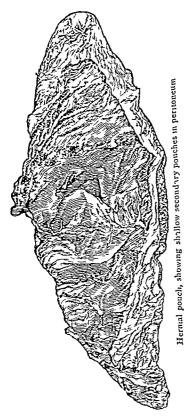
I was called last November, and found a deplorable state of general health, anamic, appetite poor, and patient so weak that she could not go from her chair to the bed without considerable fatigue She had a distinct mitral bruit, weak and rapid pulse, temperature 100° F I continued to visit her for one month, feeding and administering medicines to She urged an early operation build her up examination of the abdomen revealed a tumor in the right iliac region as large as the head of a child at full period, which was fluctuating, movable, and easily The uterus was plainly felt defined by percussion through the hermal pouch, separate from the tumor Change of position did not influence its shape No ædema of lower extremities, nor abdominal dropsy Examination per vaginam showed a violent vaginitis with an opening through the floor of Douglas' culde-sac, which allowed the passage of a sound in the direction of the base of the tumor A fluid escaped through the opening, pressure on the tumor increas-That which escaped was white in color ed the flow The amount of flow a day and mixed with blood was estimated by the patient to be one pint Diag nosis Cystic tumor of right ovary, probably unilocular, with fistulous opening into vagina

An operation was performed December 6, with every antiseptic precaution, assisted by Profs Coles and Graves, and members of the senior class of the Beaumont Hospital Medical College An elliptic incision was made over the site of the tumor, at least seven inches in length, the tumor exposed and the fluid drawn off, which was the same that flowed from There was only one the opening into the vagina adhesion to the tumor, that of the extremity of the This was torn off with the appendix vermiformis finger nail, and the end cauterized, completely controlling hæmorrhage (Greig Smith reports his having to remove the entire organ without serious results) The tumor was lifted from its broad base, which was transfixed at its attachments to the floor of the pelvis, the ligature tied, and all that remained Another ligature of the sac charred with a hot iron was placed below, and entirely around the pedicle, so as to close any opening that might exist with the

No instrument could be made to keep the same time be able to approximate the walls Five edges of the wound (closed with sutures less than one half inch apart) were made to coaptate accurately, a drainage-tube was placed in the lower angle of the wound, the parts dressed antiseptically, and the patient put to bed Reaction was complete within two hours, and for the first time since November her temperature was less than 100° F aggravating nausea, which would not yield to any of the prescribed remedies, necessitated feeding per rectum from the first day The temperature range for the first twenty-four hours was 99° to 99 8°, pulse 72 to 80 She did not sleep more than one half hour during the night On the second day the temperature continued less than 100° until 9 PM, when it rapidly rose to 103 8°, the pulse was rapid and weak, a dusky hue of the face was present with constant nausea, which forbad anything remaining in the stomach



Believing that I had an incipient peritonitis to deal with, I ordered calomel, grs 1355, placed upon the tongue, which was the first retained since the I continued the dose every half hour until ten grains was used, when I gave every hour Be- A M the next morning, by the use of a rectal tube, fore operating the line of incision was mapped out a half pint of thin fecal matter was expelled, which with iodine so as to remove all the pouch, and at the was followed by an enema, and the bowels thorfor six hours The temperature went down to 99 6° From this time she retained food, and showed nothing unusual in the progress of the case. On the seventh day the stitches were all removed (the tube having been removed on the fifth day) showing the walls had united by first intention A well fitting truss, made from the cast of the abdomen, was ad go about the room with comfort months later, she was much improved in health, the fistulous opening into the vagina had closed, and the operation had proven entirely satisfactory submitted the tumor for examination to Dr Adolf Alt, who said it was of the papillomatous form



Coblenz believes that when ovarian tumors show a papillomatous development they invariably arise at the hilum of the ovary, this form is the most com mon affecting these organs, and like villous growths elsewhere is not always malignant. In the malignant form papillary growths will be found in patches upon adjacent structures, or else the womb and broad ligaments are also involved in one cauliflowerlıke tumor Tut observes that he has had two cases of ovariotomy in which he left large masses of papil loma attached to the womb, yet in each case these masses wholly disappeared and the patients are both that this specimen is a benign tumor?

oughly cleaned out, flatus for the first time began to fore the operation, causing the fistulous opening pass, the patient became free from pain and slept May we not conclude, if it is true, as Tait and Bantock claim, that tapping hastens degeneration, and after an accidental rupture of such a cyst the pentoneum will be found studded with patches of papillary cancer (hence they argue that ovarian tumors should never be tapped and that they should be removed in their earliest stages before any malignant transformations have taken place), that had this tujusted four weeks later, which allowed the patient to mor been removed entire at the time it was injured, Examined three there would be no question that it would not return? Grand and Washington Aves

> SIMULTANEOUS TRIPLE AMPUTATION FOR RAIL-WAY INJURY, WITH REMARKS ON THE TECH-NIQUE OF MULTIPLE AMPUTATION

Remarks before the College of Physicians of Philadelphia, March 7, 1888

BY JOHN ASHHURST, JR, MD, PROFESSOR OF SURGERY IN THE UNIVERSITY OF PENNSYLVANIA SUR GEON TO THE UNIVERSITY HOSPITAL

This patient is brought before the College largely on account of the rareness of simultaneous triple major amputations It is quite possible that some of the Fellows may not have had an opportunity of seeing such a case

The patient is a Moor, 20 years of age He was admitted to the University Hospital November 28, 1887, having been run over on the Pennsylvania Railroad I saw him within two hours after his ad-I found a compound comminuted fracture mission of the right leg, the laceration extending above the knee, complete avulsion of the left leg, the limb having been torn off in its lower third, and a compound fracture of a severe character of the right hand There was also a compound fracture of the skull, involving the frontal bone This, however, was an impacted fracture, of course without much depression, and did not require interference addition to these injuries there were numerous brushburns and contusions, some of a grave character One upon the left buttock was so severe that the separation of the slough left a cavity fully two inches in depth Notwithstanding these serious injuries, the patient's general condition was very good, he had reacted thoroughly, and his axillary temperature was Under these circumstances I felt justified in proceeding to the immediate removal of the injured limbs, and amputated successively the right thigh by the antero-posterior flap method, the left leg, about its middle, by a modified Sédillot's external flap operation, the modification consisting in making both flaps from without inward, instead of cutting the external flap by transfixion, and the right forearm by an oval incision, making use of the uninjured skin of the back of the hand and wrist Certain variations from the ordinary procedure in amputations I shall refer to when I come to speak of what I have ventured to term the technique of multiple amputain perfect health. If this is true, may we not hope tions. After the operations were completed, the tem perature had fallen only to 98° F The patient had This tumor was roughly handled five months be- no bad symptom and rapidly recovered, and as you see him now all his wounds are perfectly healed, and tourniquet and Esmarch bandage being both emhe is entirely well

multiple amputations I am able to find but one instance of quadruple synchronous amputation—a case moval of one limb, it will be found that further operin which the operations were done for frost-bite by ation must be postponed on account of the patient's Dr George E Jackson, of Dakota eral cases recorded of multiple amputations, not syn- him with the less severe injuries. In this case I chronous, the one which approaches nearest to a began with the thigh After amputating the limb, I synchronous operation being that of Champenois, a secured the main vessels, which were readily found French surgeon, who amputated three limbs on one I attempted to tie the arteries with catgut, but as the

dry and the fourth a few days later

reported four successful cases, not including that the right leg, securing the vessels in the same man presented to-night one by Dr Kohler, of Schuyl- ner, and then passed to the forearm I then came kill Haven, Pa, one by Dr Lowman, of Johnstown, back to the right thigh, screwed up the tourniquet Pa, and two referred to by Professor Agnew, in his and removed the Esmarch bandage, and secured all Surgery, one occurring in the practice of Dr Stone, of New Orleans, and the other in York, the name of the surgeon not being given There are reported vessels had been secured in each case, a towel dipped four or five triple amputations not synchronous have myself resorted to synchronous triple amputa- flaps tion in two cases Several years ago I had occasion to perform this operation, removing both legs and the right forearm of a man æt 45 years, of intemperate habits The patient died on the tenth day, the fatal result being due rather to the visceral lesions resulting from alcoholism than to the operation

Double amputations are comparatively numerous I have personally performed fifteen such operations, this number not including two successful cases of double partial amputation of the feet I have done the temperature, and even in comparatively slight fifteen double major amputations, of which five have ended in recovery One of the patients who recovered I had the honor of exhibiting to the College some years ago, the amputations in his case were rely upon washing with hot antiseptic solutions before through the right hip-joint and through the left leg In the fatal cases, seven of the deaths occurred in less than one day, the immediate result of the shock Three patients of the injury and of the operation died, one in three days, one in four days, and the The latter would probably third in eighteen days have recovered but that he also had suppurative disease of the middle ear, which appeared to be the cause of the pyæmia which proved fatal, for when the stumps were examined, after death, they were found to he in good condition

With regard to what I have termed the technique of multiple amputations, there are some points which my experience justifies me in urging upon surgeons Wagstaffe says I have been struck, during the place, it is very important that the time occupied by room, with the fact that a natural twist is given to the operations should be brief, that the operations the instrument during its removal from the bladder should be done systematically, so as to keep the patient under the anæsthetic as short a time as possitance, is to keep up the temperature of the patient curacy of one's impression I have adopted, after during the operations I have been led to think that various trials, the simple one of using a bougie à this is, perhaps, of more importance than anything boule of medium size (about No 10 of English guarded against, and loss of blood directly causes bladder, and then withdrawn until a check is felt by loss of temperature In this case, hot cans were kept the neck of the bladder From this point the ob around the patient during the entire operation, and servation starts, and the distances are taken from in order to save time I operated systematically, the this start point

ployed to prevent any loss of blood I began with I have collected some statistics of synchronous the most serious injury, and this is, I think, a point of importance It may happen that, after the re-There are sev- condition, and then it is, of course, better to leave ligatures broke, I substituted silk and, in order to Of synchronous triple amputation there have been save time, left both ends uncut I next amputated the vessels that required ligature, then passing to the other limbs in the same order as before. After the I in a hot antiseptic solution was placed between the The wounds were then dressed in the same order, and in this way the operation was completed in a comparatively short time

> The points which I have mentioned I believe to be of great importance, and I think that much of the disappointment of surgeons from these operations is due to a want of attention to these matters

> I should also say that, in order to preserve the bodily heat, I did not use irrigation during the amputations I think that this often seriously reduces operations where it has been used, I have seen the temperature fall to 97° F, and even 95° F I think that in any grave case, it is better to omit it and to and after the operation Also, the packing of wet towels around the seat of operation, as is very com monly done, tends to depress the temperature, and in grave cases should be omitted

> $ar{\mathbf{I}}$ think that it is to an observance of these precau tions that I have owed success in this case, and in many other serious operations of various character

MEDICAL PROGRESS.

Physics of the Male Urethra -MR W W In the first passage of catheters and bougies in the out-patient and urethra of the male, a rotation very sensible to the feel, especially when light and flexible instru The next point, perhaps of even more imporments are used In order, therefore, to test the ac-Of course, loss of blood must be scrupulously measurement) This is passed thoroughly into the rust outside the meatus by external means piece of fine silk noosed round the stem near the semen by the arrangement of the urethral column After its first start, however, so little traction any external traction bougie à boule no doubt helps to explain this forward movement, as the urethra contracts upon a conical as' Hospital Reports, vol vi Where stricture is said to have existed in these cases it was either very slight or imaginary, for the bougie equal to No 10 English passed without difficulty When a rather larger instrument was used no material difference was noticeable in the results, but, as may be seen in Obs ix and x, a larger instrument sometimes showed the results more clearly, nd in this case the urethra was larger than usual

The first result of these observations is that in all the cases the direction of the rotation given to the In one case the rotation began bd igie is the same with a small divergence to the patient's right side. but this was followed by the usual rotation to the In all the other cases rotation began at once to the patient's left for a certain distance and to a certain degree-generally making the index stand directly opposite its original position-passing, that 1s to say, through 180° or half a circle This position was reached when the instrument had passed about 4 inches from its start, and then began a reindex stood at right angles to the start An explanation of the phenomenon is probably to be found an the peculiar construction of the urethra In the ordinary (collapsed) state the canal is represented by a fissure bounded by columns of mucous mem- losis, 2 had diabetes brane which may be traced from the bladder outwards, running in the direction of an elongated spiral The change begins in the prostatic urethra, where the tube as seen in transverse section takes the form of an inverted U, owing to the upward projection of the verumontanum point that the rotation of the catheter begins the apex of the prostate the fissure is shorter and horizontal, with only a slight convexity forward in the bulbous horizontal, with a slight sinuosity. The the glans is gradually replaced by an inverted T, the vertical limb of which, at first very short, gradually elongates, while at the same time the horizontal limb becomes shorter and at length disappears, leaving a single perpendicular slit that ends at the external

The degrees of rotation are estimated by means somewhat after the manner of a gun-barrel, but the of a pin fixed vertically into the stem of the bougie spiral of the urethral tube, which runs from right to The bougle à boule having left in about the upper three fourths of its length, ususo fine a stem, and a bulbous end which can be read-ally becomes reversed near its distal extremity The ily grasped by the part of the urethra it is in contact object of the spiral grooving in the case of the gun is with, is rotated with readiness, and I have therefore to secure for the projectile a rotatory motion and been careful to avoid any rotation being given to it greater precision in the direction of aim, and we may I have found that the simplest fairly assume that similar advantages of a physiologimeans of withdrawing the bougie has been by a cal nature are gained for the outflow of the urine and

The practical application of these observations is is necessary that the observations have to be taken not yet obvious, but it is a question whether the arpromptly, as the instrument is passing often without rangement of the urethral mucous membrane may The shape of the bulb of the not point to the kind of rotation which would render most easy the introduction of a catheter - St Thom-

OPERATIONS FOR RECTAL FISTULA -GREFFRATH reports 61 cases of rectal fistula operated on in the The fistulæ occurred be-Heidelberg Polyclinic tween the ages of 20 and 40 years in 57 4 per cent of all cases The youngest patient was 6 months Only I case occurred in a woman The fistula was incomplete external in 655 per cent, incomplete internal in 4 9 per cent, and complete in 29 5 Of the incomplete external (33 cases per cent noted) the fistula was lateral, between the anus and tuber ischii in right side, in 242 per cent, on left side, same situation, 39 4 per cent, around the anus, with different openings, 24 2 per cent, external opening in the middle line behind the anus in 122 per cent The seat of the incomplete internal fistula was in every case just above the external sphincter Of the complete fistulæ (noted in 17 cases) the seat was on the left between the anus and tuber ischil in 41 2 per cent, right, same situation, 17 6 per cent, verse rotation, usually, but not invariably, until the around the anus, with different openings, 5 9 per cent, external fistulous opening posterior 23 5 per cent, anterior 11 7 per cent

Of the 61 cases 10 had symptoms of pulmonary tuberculosis, 7 had hereditary tendency to tubercu-Of the patients 2 had had acute rheumatism, r attributed his trouble to longstanding hæmorrhoids, i to eczema, 3 to local injury and causing progressive alteration in the form of the In 9 the fistulæ seemed to have come on spontaneously, and 43 gave the history of a small abscess having formed and caused the trouble

In 16 cases the fistula was operated on by means It is at this of the knife, in 43 with the thermo-cautery 16 operated on with the knife 11 had normal internal organs, 3 had symptoms of pulmonary tuberculosis, In and 2 had hereditary tendency Of the 11 with the membranous urethra the section becomes stellate, healthy organs 80 per cent were completely cured, latter form is maintained through the greater part of Of the 3 phthisics I died of sepsis, I was not cured, 1 died (of tabes?), and 1 was not completely cured the penile portion of the canal, but in approaching it lost sight of Of the 2 with hereditary tendency I was not cured, I lost sight of

Of the 30 cases with healthy organs treated with the thermo cautery 4 were lost sight of, 22 were

single perpendicular slit that ends at the external meatus

In tracing out these changes carefully upon the subject it will be found that the urethra is rifled

It is sometimes stated that a twisted stream is one of the early signs of stricture but this is misleading since the normal outflow is always perceptibly spiral. This phenomenon is perhaps not altogether subject it will be found that the urethra is rifled of a narrow smooth-edged slit does not continue in a straight 'tape" jet, but is shot out as a spiral.

completely cured (85 per cent), 3 not completely | had in acute cases in which the temperature became cured, 1 died (presumably of phthisis) Of the 5 almost stationary after a period of fever, and in with hereditary tendency 2 were completely cured, which, as a rule, the lesion was catarrhal and unilat-2 died of phthisis (whether fistula was cured or not eral is not known), and i died, with questionable diag- 6 or 7 m of creasote a day, he has not given more nosis Of the 7 with phthisis treated with the thermo- than 7 m, and thinks it necessary to continue treatcautery 2 were lost sight of, 1 completely cured, 2 not cured, a died of phthisis, uncured

Grestrath concludes thus

1 The eschar made by the thermo cautery protects the wounded surface better from infecting material from the first day, and with care the patient may go to stool on the first or second day after the operation

without homorrhage of any importance

3 Better granulations are obtainable from the thermo cautery than after the use of the kmfe

adhesion of the wounded surfaces impossible

After the use of the thermo-cautery antisepsis can be carried out more efficiently, and Greffrath recommends iodoform as an excellent antiseptic in these At the conclusion of the operation the whole wound is disinfected with a 5 per cent solution of chloride of zinc, and then iodoform is applied

Greffrath's cases and results lead him to consider the question of operating on rectal fistulæ in phthisi-

He concludes that cal patients

1 There is a causal nexus between tuberculosis and rectal fistula, but tuberculosis does not contra-

indicate operation on the fistula

2 Fistulæ form in diabetics on account of inflammation of the cellular tissue, and patients suffering from rectal fistulæ should have their urine examined for sugar - Deutsche Zeitschrift fur Chinungie, Bd 26. Hst 1 and 2

Anthrarobin in Dermatology -Anthrarobin is a product intermediate between chrysarobin and pyrogallic acid, superior to the second, and without It is a yellow pow the inconveniences of the first der, soluble in 10 parts of pure glycerine and in 5 parts of absolute alcohol at 100°, and more soluble in the latter in the proportion of 1 2 at a temperature of 15° C When applied to the skin it colors it yellow, and causes a slight sensation of dryness

According to Liebermann and Behrend it is used by bathing the affected part with the alcoholic tineture or with a 10 per cent glycerole, and munction Its application with a 10 to 20 per cent pomade should be preceded by bathing the affected part with an alcoholic solution of potash soap Its indications In psoriasis it is applied are those of chrysarobin by friction with a brush, after removing the crusts In herpes touserans Behrend claims that it is equal to chrysarobin - Revue Gen de Chnique et de Thérap —March 22, 1888

CREASOTE IN PHTHISIS -VON BRUNN has treated 1700 cases of phthisis with creasote in 8 years, and The cases were both ambulatory, in which there was but little rise of temperature, and with good results cases of active tuberculosis The best results were ruary, 1888

Von Brunn thinks it unwise to give less than ment for several months The more creasote the patient can bear, the better, he thinks He uses the the creasote wine originally prescribed by Bouchard

Creasote	13 parts
Tr gentian	30 ''
Alcohol	250 "
Tokny or Malaga wine	ad 1000 "

One teaspoonful well diluted with water three times 2 The operation can be done in a few moments a day -Berlin klin Wochenschrift, Feb 20, 1888

ITAI IAN TREATMENT OF PULMONARY TUBERCULOsis —Prof Enrico de Renzi (Il Morgagni, abstract 4 The eschar of the cautery makes the immediate in Centralbl fur d gesammte Therapie, February, 1888), passes under review the influence of creasote by the stomach and by inhalation, of iodoform, turpentine, iron, sulphuretted hydrogen, sulphurous acid, etc , by inhalation, and of the gaseous rectal injections

Excellent results were had from the iodoform inhalations, and also from sulphuretted hydrogen Cre asote in considerable doses greatly lessened the bron chial muco-pus and the purulent matter of cavities, and exercised a favorable influence over the general The following formula was used nutrition

C	5 parts
Crensote (pure)	100 ' "
Alcohol	** **
Balsam of Peru syrup Water	\$\$ E\$

Dose, 1 tablespoonful

The rectal gas injections exercised a favorable influence on cough and expectoration, but had no effect on the existing pulmonary lesions

He concludes that the most clearly curative effects are obtained by large use of 10dine and 10doform-Amer Jour of the Med Sciences, April, 1888

STOPPAGE OF THE NATURAL FLOW OF URINE, SAYS ULIZMANN, may be caused by

1 Occlusion of the smaller urmary tubes, as in

cholera and any of the renal diseases

By occlusion, twists, and turns in the urethra Ultzmann records the case of a man, æt 43 years, with calculus of the kidney, who suddenly developed anuria, which caused death in two weeks topsy showed a cyst of the left kidney as large as a goose-egg, with obliteration of the ureter, and on the right side an enlarged kidney, with three small stones

By a tumor of the bladder -Internal klin filling the ureter Rundschau, Nos 9-17, 1887

OINTMENT FOR SCABIES -LASSAR uses the following ointment

Naphthol, grm 5-10 Gum soap Precipitated chalk Washed sulphur

-Jour Cutan and Gentle-Urmary Diseases, Feb-

THE

Journal of the American Medical Association Published Weekly

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to eall to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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THE PUBLIC AND PUBLIC HEALTH

Desired advances in public health reforms and legislation can scarcely be hoped for in a country of universal suffrage until the public, and especially the leaders of the public, are educated up to the point of knowing what public health, in its broadest sense, means, and until it is made plain to them that the whole matter may be reduced to one of dollars and cents. Business men are always ready and willing to listen to any one who can show them how dollars and cents may be made and saved. The public press, recognizing this fact, is always willing to publish anything that will show people how to save or make money.

But the public and the press want something more than ambiguous statements, they want facts and figures, that carry conviction on their face It is not enough to tell them that certain sanitary reforms and measures have saved lives and money to a country, they want to know how many lives, how many years of aggregate life, and how many dollars Populus vult decipi is a hackneyed and often untrue saying People do not wish to be deceived In the majority of cases in which they are deceived, they act on the best of their knowledge and belief, they have not been taught what is best for them, and pursue the wrong path because they cannot read the sign-board that is so plain to the more fortunately educated

Public health legislation and medical legislation have been and are difficult to secure by popular vote because the people are inclined to look upon such as class legislation. An example of this tendency may

be found in the Congressional Record, of March 27, in the ten-page debate on the anatomical bill for the The members of the House District of Columbia that opposed it showed, by their objections and the foolish amendments offered for the purpose of making the bill non-operative, or of killing it, that they regarded it as a piece of legislation entirely for the good of the medical profession, and hence for the detriment of all other classes of people Such ideas are fostered and disseminated by the public press, especially in new countries, and in the newer and more recently civilized parts of new countries, where an assumed title of "Professor" carries more weight than utterances of modest wisdom Members of the press seem to reason as follows People that advertise in our papers are wise, good and honest, reputable physicians do not advertise, ergo, reputable physicians are not wise, not good, and not honest Scarcely a month passes in which every one of the newspapers of this city do not publish, editorially or otherwise, spiteful and malicious articles concerning the medical profession, thus following in the footsteps of a notorious Chicago journalist, sometime deceased, who was known to be insane for years before his death In regard to the matter of advertising in newspapers, it does not seem to have occurred to the writers to find out why reputable physicians think such advertisements improper, and why they must in the end, be detrimental to the public

As was said at the outset, the public and the leaders of the public must be educated up to the point of knowing what sanitation and public health mean But how are they to be taught? One may hire a hall By this method, however, only a very and lecture small minority of the public are reached through the daily press that the public is best reached As a rule, however, the daily press will not give space to such information It does not contain the details of a triple murder, or a scandalous divorce case, it is not "taken from the diary" of some ignorant detective or policeman, that probably never kept a diary, it has no information concerning prize fights and base-ball games, and, a fatal objection, it gives no opportunity for publishing a bad wood-cut of some notonous woman or thief With these objectionable and even fatal defects, an article on any subject relating to public health is not considered "news" by the Palladium of our Liberties

Some time since the Agricultural Department of Wisconsin University published the results of an example of this tendency may

pigs The publication was sent to a large number of papers, both in this country and England Not a single paper in North America gave as much as one column to a review of the experiments An English paper, on the contrary, gave more than a page to the subject.

The newspaper is the best medium for the dissemination of knowledge among all classes because it is cheap. If, on the one hand, one ask the editor of a daily newspaper why he does not print what will teach the public and give it information, he promptly replies that teaching is no part of the business of a newspaper. If, on the other hand, one be asked, what is the great means and medium for instructing the public? he answers, just as promptly and positively "The daily press"

There are some papers that, at intervals, attempt to discuss scientific matters, sanitary, medical, and Just about as often as these attempts are made, however, facts are so misstated and distorted (generally unintentionally) that what is written has It would seem that an editor that had any desire to give facts would have such articles written by men competent to write on these subjects, in which case well-informed men would not be disgusted, and the general public would not be misinformed This is done to a very large extent in England and on the Continent, and when articles of this kind appear in such papers as the London Times they are generally of such a nature as to carry conviction There is no more important field for a great daily newspaper to work in than that of informing its readers on public health matters

But how can a newspaper consistently preach public health in its editorial columns, and at the same time sell advertising space to quacks? Long usage and experience shows that consistency is not among the jewels that may be owned by a newspaper. And it may be said that sanitarians should be tolerably well satisfied if the papers would begin to pay some attention to public health matters. As the matter now stands, so soon as any one begins to agitate for sanitary legislation, the public and the newspapers cry out that the doctors want something for themselves. They may be informed, however, that all the doctors ask for themselves is that the public will be more prompt in paying their doctors' bills

EXTIRPATION OF THE LARYNX —On February 19
PROFESSOR CACCIOPOLI, of Naples, performed the
13th extirpation of the larynx in Italy—for sarcoma
of the larynx

CESOPHAGOTOMY FOR FOREIGN BODIES

In the Deutsche Zeitschrift fur Chirurgie, Bd xxv, S 565, 1887, GEORG FISCHER, of Hanover, published a list of 80 cases of æsophagotomy for foreign bodies, with remarks on the general indications as to treat-He has recently (Deutsche Zeitschrift für Chirurgie, Bd xxvii, S 273, 1888), republished his list, stricken out one case, and added 29 published and unpublished cases, making a total of 108 cases from which to draw conclusions Of these Germany furnishes 26, Great Britain 20, North America 19, Austria 12, France 10, Italy and Russia 10 each, Denmark 3, Switzerland, Belgium and Holland 2 each, and Spain and Asia 1 each Of 100 cases 67 were male and 33 female In 6 cases the foreign bodies stuck in a stricture of the œsophagus, 5 of these in Billroth's clinic, I of which was twice oper Between 1738 and ated on (1n 1878 and 1885) 1870, 31 œsophagotomies were performed, and 17 since 1870

Taking out a case of œsophagotomy in which gas trotomy was subsequently performed, with a fatal result, 107 operations give 79 recoveries and 28 deaths, a mortality of 26 16 per cent A study of the cases as regards the time that elapsed between the impaction of the foreign body and the operation shows that the mortality of operations done during the first two days is about 5 per cent less than between the third and sixth days (inclusive), and that the mortality of operations done during the first three days is about 15 per cent less than between the fourth and eighth days (inclusive) Of 70 opera tions done during the first eight days 27 14 per cent were fatal, but of 9 between the first and fifth week 22 22 per cent were fatal, and of 14 done after the In regard lapse of months or years 21 42 were fatal to the age of the patients, the mortality of 9 operations between the ages of 10 and 20 years was nil, between 20 and 30 (18 cases) 11 per cent, between 30 and 40 (21 cases) 28 per cent, between 1 and 10 (12 cases), 40 and 50 (12 cases), and 50 and 60 (6 cases) 33 per cent, and between 60 The youngest patient was 11 and 70, 80 per cent One child of 16 months, 2 of 2 months old (died) years, and 4 between 3 and 8 years recovered, though 1 had 20 epileptic attacks within 24 hours after the The oldest patients were a woman of 70 operation (died), and a man of 74 (recovered)

In regard to the nature of the foreign bodies, 34 operations to recover false teeth gave a mortality of 20 per cent, 33 for impacted bones of various kinds gave 33 per cent of deaths. Of 7 operations for impacted coins 1 died. All the cases in which fruit

stones (6 cases), needles (5 cases), and fishbones (2) were operated for recovered Two operations for These were the foreign bodies stones gave 1 death that indicated the operation more than once

Fistula after operation occurred in Cheever's first three cases, but the fistulæ, caused by reopening of the wound, closed again Of the fatal cases, 12 were caused by ulceration, perforation, or gangrene, with involvement of the posterior mediastinum, burrowing of pus into the pleura, stomach, and to the base of the skull, and to pneumonia and pulmonary gangrene, 6 deaths were from hæmorrhage, 5 from exhaustion, I each from sepsis, pulmonary cedema. tuberculosis, and pulmonary trouble In regard to the deaths from hæmorrhage (6), in half of them the foreign body wounded an artery, and hemorrhage took place from the mouth or into the larynx and No fatal hæmorrhage occurred during an In 3 cases the hæmorrhage occurred operation during the after-treatment, from unknown cause, in 1 case the ascending cervical artery rupturing on the eighth day, in I case presence of a drainage tube, with the assistance of a 5 per cent solution of chlo ride of zinc, caused hæmorrhage from the common jugular, and in 1 case the thyroid cartilage was most probably wounded by the stomach tube tion carried off a 3 year old child, 3 patients between 60 and 70 years, and a man that had had a set of teeth in his œsophagus for 12 years The case of pyremia occurred in Nussbaum's service in the Munich Hospital in 1868, "when pyemia was the order of the day "

The indications given by Fischer for the opera-1 A recently swallowed for tion are as follows eign body must be removed by œsophagotomy, in case the bloodless method fails up to the end of the day after it was swallowed Tracheotomy must be performed for threatened asphyxia 2 If the foreign body has been impacted for some days one trial may be made with the bloodless method, and if this fail esophagotomy should be performed im-3 If the nature of the foreign body be mediately such that any attempt at extraction or to push it down is dangerous, operate immediately 4 When infiltration of the neck already exists, or when hemorrhage has taken place from the mouth, esophagotomy must be done at once These indications presuppose that the surgeon sees the patient early As a rule, however, the patient goes from one physician to another, each one attempting to remove the body, until finally, possibly after the lapse of Gays, the patient goes to a hospital Precious time has

perforated, and the favorable time for operation is The physician, should he not wish to operpast ate, should send the patient to a surgeon without making more than one or two attempts to remove the body

Of the technique of the operation, and of the after-treatment, something may be said The diagnosis and location of the body may be rendered un certain by enlarged or softened glands (case of Konig), or an abnormally large carotid tubercle may cause an error (case of Esmarch) It must be remembered that the body may slip into the stomach during an esthesia on account of the now relaxed condition of the esophagus The body may be too large to remove through the incision, Lawson had to cut a set of teeth in two with bone-forceps in order to remove them It does not seem advisable, according to Fischer, to lay down any rule in regard to whether the œsophageal wound should be sutured If the suture be used berhaps it is best to use isolated sutures, first used by Colin on animals, and recommended by Terrier As to feeding the patient, Fischer says r Every patient with a suture in the œsophagus should take fluid food a few hours after the operation, but should not be fed with an œsophageal tube Exceptions are cases of incomplete and very painful deglutition and extreme exhaustion of the patient 2 Under the open treatment of the wound the patient should be fed at first by means of a tube carried into the stomach through the wound

PRFVENTION OF DIPHTHERIA

In complying with the request of a correspondent, in The Journal for March 31, 1888, we gave as the formula for preventing diphtheria "an abundance of pure air, good water, wholesome food, clean soil and a clean personalty" Now we are asked by another highly esteemed correspondent, whose letter can be found in another column, whether we have not "accidentally given the wrong formula" And he suggests as the "correct formula for the prevention of diphtheria isolation and disinfection " In reply, we ask whether our formula was a mistake, or whether our correspondent has mistaken the object for which our formula was given? If the conditions given in our formula actually exist in any community or household, what can our sanitarian find to isolate or disinfect? The coexistence of the conditions being established, the only thing necessary is to maintain been lost, the esophagus has been injured, perhaps infection or cases of infectious disease as the presence of either at once destroys the conditions demanded by our formula But if the air, water or food are allowed to become contaminated by the presence of infectious persons or things the primary question is not one of prevention, but of how to get rid of what already exists? In answering this question, the formula of our correspondent becomes appropriate, te, isolate the infectious person and disinfect or purify all the infected surroundings, until the conditions of purity required by the formula for prevention are restored

MFDICAL GRADUATES IN FRANCE -From 1882-83 to 1886-87, inclusive, the six diploma-granting faculties of France graduated 3057 students deaus graduated 378, Lille 76, Lyon 242, Montpellier 338, Nancy 104, and Paris 1919 From 1882 -83 the number of graduates steadily diminished from 662 to 546, in 1886-87 the number rose to 624, but in this year 99 diplomas were granted, under the new organization of the service de santé, to members of the corps de sante of the marine, leaving 525 diplomas granted to actual students of medicine, which is proportional to the diminishing ratio of the preceding sessions

PRIZES OF THE LOMBARD INSTITUTE -For 1888 A well demonstrated discovery in the treatment of pellagra, or on the nature of contagious miasms Memoir to be deposited before De-(2500 francs) 1 History of hypnotism, For 1889 cember 31 critical examination of questions relating to it, with personal experiments (1500 francs) 2 Original researches hand before April 30, 1889 on the embryology of the nervous system of mam-3 Show some point in the mifers (2000 francs) macroscopic and microscopic anatomy of the human brain (2000 francs)

MAL PERFORANT AND SPINA BIFIDA -Kirmisson published (Bulletin Médical, Sept 7, 1887) a case of perforating ulcer which he ascribed to spina bifida S Bonandi (Gazette degli Ospitali, March 21, 1888) also publishes a case confirmatory of Kirmisson's case, and concludes that it is at least plausible that the arrest of development of the vertebral column and the dystrophy of the spinal cord is the primary cause of mal perforant in cases of spina bifida, and that these cases support the theory of the nervous origin of the foot affection

LIEBERMEISTER and ERB have both declined the Tenn

Chair of Clinical Medicine in Leipzig made vacant by the death of Wagner

SEVEN AMERICANS attended the chemical laboratory of Prof Fresenius in Wiesbaden this session, out of a total of 75 students

A MEDICAL SCHOOL FOR CHINESE was opened in Hong-kong last October

ASSOCIATION ITEMS.

The following additional titles of papers to be read at the approaching meeting have been received since the programme was published in the issue of THE JOURNAL for April 7

Section on Practical Medicine

"The Unity of Tuberculosis," by J H Musser,

Philadelphia

"My own Clinical Experience in the Administra tion of the Iodide of Potassium in the Treatment of Syphilis," by Morris H Henry, New York

Obstinate Hæmaturia and its Treatment, by H

D Didama, Syracuse

Section on Obstetrics and Diseases of Women "Treatment of Acute Peritonitis," by William H

Myers, Ft Wayne, Ind

"The Value of Galvanism as Applied by Apostoli in the Treatment of Fibroid Tumors of the Uterus, with Cases," by Franklin H Martin, Chicago

Section on Diseases of Childien

"Membranous Croup and Laryngeal Diphtheria, Are they Identical?" by I N Love, St Louis

Section on Surgery and Anatomy

"On the Radical Cure of Varicocele Attended with Redundancy of Scrotum," by Morris H Henry, New York

Section on State Medicine

AMENDED LIST

At the coming meeting of the American Medical Association at Cincinnati, O, May 8 9, 10 and 11, papers are expected before the Section on State Medicine, as follows

First Session, Tuesday, May 8 Address by the Chairman of the Section, "Recent Advances in State Medicine," by Henry B Baker,

"Should the National Government Defend our Lansing, Mich Ports Against the Invasion of the National Enemy, Contagious Disease?" by Benjamin Lee, Secretary of the State Board of Health, Philadelphia, Pa

A paper (title not yet learned) by J N McCormack, Secretary of the State Board of Health, Bow-

"Cremation of Garbage," by J Berrien Lindsley, ling Green, Ky Secretary of the State Board of Health, Nashville,

"House Drainage," by Joseph Edwards, Philadelphia, Pa

SECOND SESSION, WEDNESDAY, MAY 9

A paper (title not yet learned) by E O Shakespeare, Philadelphia, Pa

"Personal Prophylaxis Against Malarial Disease,"

by Geo H Rohe, Baltimore, Md

"Atmospheric Temperature and Intermittent Fever," by Henry B Baker, Secretary of the State Board of Health, Lansing, Mich

"Abstract of Laveran's Researches on the Hæmatozoon of Malaria," by S T Armstrong, U S Ma-

rine Hospital Service

"The Internal Origin of Fevers," by J A Larra-

bee, Louisville, Ky

"Uniform Medical Practice, Report by a Committee of the Association," by Perry H Millard, Cn'n

Third Session, Thursday, May 10

"Recent Discoveries and Researches with Regard to a Common Cause of certain Infectious Diseases," by C W Chancellor, Secretary of the State Board of Health, Baltimore, Md

"The Causation of the Essential Fevers," by Vic-

tor C Vaughan, Ann Arbor, Mich

"Hygiene of Infancy and Childhood," by T B Greenley, West Point, Ky

"Eastern Carolina as a Residence for Tuberculous Patients," by J M Baker, Tarboro, N C

"The Duty of the State and of the American Medical Association to Consumptives and their Medical Advisers," by I E Woodbridge, Youngstown, O

Each paper should take twenty minutes, and there

should be discussion after each paper

If those who are to contribute papers see any error or omission in the title as here given, they will confer a favor by notifying the Secretary of the Sec tion, S T Armstrong, M D, Marine Hospital Service, New York, or the undersigned,

HENRY B BAKER, Chairman of the Section on State Medicine, American Medical Association, Lansing, Mich

SOCIETY PROCEEDINGS.

ST LOUIS MEDICAL SOCIETY

Stated Meeting, March 3, 1888 THE PRESIDENT, Y H BOND, M D IN THE CHAIR

Dr I N Love read a paper on

THE PRACTICAL APPLICATION OF GLYCERINE

There is no one disturbance that superficially viewed, seems so trivial, and yet which may be the cause, directly or indirectly, of such positive injury to the human anatomy as constipation In infantile life, and during all ages, particularly among women,

Any procedure stipation, cannot be computed that promises relief for this dire disturbance should be thoroughly tested, and if efficacious, adopted

In the British Medical Journal, of December 24, 1887, Dr Julius Althaus reports, with the endorsement of his own experience, a procedure recommended by Anacker for the relief of habitual constipation, viz, the injection by means of a small glass, or hard rubber syringe, of a teaspoonful of glycerine An evacuation of the bonels into the rectum usually occurs immediately, or within a few minutes

The rationale of its action given by Anacker is that glycerine, in consequence of its pronounced affinity for water, when placed within the rectum, abstracts moisture from it, causing hyperemia and irritation of the sentient nerves of the rectum, which leads reflexly to active and prompt peristaltic contractions, ending in defecation The greater the accumulation of fæcal matter in the rectum, the There is no unpleasantmore decided the effect ness or pain, but the action takes place cito, tute et jucunde Sometimes a little fulness and throbbing is felt in the rectum for a few minutes afterwards

Althaus expressed the opinion that this plan, on account of its simplicity and readiness, would be found to constitute a ventable improvement in the therapeutics of constipation The simplicity and practical value of the idea impressed me the moment my eye fell upon the article of Althaus, and I demonstrated its value within an hour, and from that time to the present, a period of over six weeks have applied it many times daily where the conditions suggested it, and no matter what the age, or degree of constipation, the response has been uni form and prompt In a large number of infants and mothers where habitual constipation had been present from the birth of the former the remedy produced instantaneous relief, and coupled with broken doses of the mild chloride to stimulate the secretory system, I believe it furnishes a key to unlock the constipated condition which can be depended upon I have directed the use of the glycerine injection at a definite hour each day, and have succeeded in establishing regularity in almost every instance

There is no question about the securement of an evacuation almost immediately after the glycerine injection The main point in order to obtain a result that will be lasting in character is to impress the patient or attendant with the importance of giving the injection at a certain time each day cases of piles and severe rectal irritation accompanying constipation, both conditions were more satisfactorily relieved by the glycerine than they had been previously by purgatives and sedative oint-This remedy is a valuable one in being ments efficient, simple and convenient. It is surprising that some one had not thought of and applied it

Apropos to this subject, Dr Edward R Mayer, of Wilkesbarre, Pennsylvania, reports in the Medical it is a prevalent disorder. The number of cases of News, of February 25, the use of an injection of two humorrhoids, prolapse of the rectum, fissure and fluid ounces of warmed glycerine through a large fistula of the anus, not to speak of the cases of fever flexible rectal tube, inserted at least seven inches, due to absorption of ptomaines, all traceable to con- for the relief of intestinal obstruction due to paralysis of the muscular coat of the bowel, superinduced truded by the pouring out of large quantities of and accompanied by peritoritis All other means liquid, and by the violent expulsive efforts of the for securing an evacuation of the bowel having muscular coat of the intestines to exert their specifailed, Dr Mayer having been uniformly successful in the application of the Anacker-Althaus plan of using glycerine, it suddenly occurred to him to extend and amplify the method as above stated insertion and the injection produced no distress or immediate effect, and he left the invalid with directions to her nurse to cause the hips and knees to be Upon his return after several elevated for a time hours, he found a greatly changed condition of affairs, comfort where their had been agony, and an anxious and pallid countenance replaced by beam-

ing smiles and hopeful expression

He was informed that within ten minutes after the administration of the glycerine enema, the patient felt a warm thrill and glow extending itself and permeating all through her intestines, followed by the tion of gaseous rectal medication " vermicular movements which precede peristalsis, by audible and sensible displacements of gas, and finally by acute colicky pains Within twenty minutes after the injection, there was an urgent call to stool, with the result of the escape of a large amount of flatus, and later, of a pint of semi-liquid evacuation of mingled yellow and green color, with some small scybale and a very pronounced odor evacuation was succeeded in an hour by another of Considerable tympanites and a similar character tenderness still existed, but the abdominal distention was decidedly reduced, and the distress greatly The temperature, which had been kept depressed to about 100° by the antipyrin, soon fell to 99°, and the thready, jerking pulse of 120 had descended to 100, and the next day was not above 90, becoming rapidly soft and full The nausea abated, and in a few hours disappeared and did not return

Enemata of warmed glycerine to the extent of two ounces each, were now administered night and morning during the next three days, each one resulting in a copious fæcal evacuation, at first liquid, The temperature varied during and then formed several days between 99° and 99 6°, the pulse soon dropped to 80, the tenderness gradually disappeared, and the distention slowly melted away Milk punch, beef-tea, and revalenta arabica were greedily taken in small quantities, retained and digested, and upon the ninth day of the illness, the patient, while feeble, was entirely convalescent, a salutary diarrhœa having set in after the enemata were discontinued, and The only drug treatment employed soon ceasing after the symptoms improved, was a single very small dose of a saline laxative and a nightly hypodermatic of six minims of morphia solution, to se-

The result in this case was extremely satisfactory, and very important in its suggestion of possibilities Dr Mayer further says "If glycerine, injected by

the method described, does really penetrate and permeate the upper colon or even the small intestine, it remains to be ascertained whether drugs combined with it as their vehicle, would measurably reor would be too completely washed away and ex- remedies in glycerine solution were not taken up

fied influence Should it be that any considerable portions of such drugs would remain in situ, it is manifest that an improved method of internal medication is near at hand, and that such drugs as antifebrin, antipyrin, aloin, belladonna, calomel, croton oil, colocynth, ergotin, hydrastia, hamamelin, naphthalin, physostigma, the terebinthinates, and even nitrate of silver, and some of the germicides may be introduced by an entrance into portals hitherto closed to them excepting by a devious journey through the ordinary avenues He would be a rash man who, with our present knowledge, should attempt to sterilize typhoid bacteria by a direct attack upon the agminate glands, but stranger things than this have happened, particularly of late, in the direc-

DR ROBERT BARCLAY I am glad to hear the doctor's testimony added to that which already exists as to the efficiency of glycerine as an aperient He speaks of its use by rectal injection, which to my mind is a very disagreeable method of administering it, except in the case of helpless patients, where there are large fæcal accumulations, or in The aperient properties of very young infants glycerine have been known for years, it has been in use as a adjuvant to other aperients It has been my custom to prescribe castor oil and glycerine, in equal parts-an ounce of each-with a few drops of oil of wintergreen added to give a pleasant flavor This often has a good effect where castor oil alone I give it by the mouth and not by will not answer the rectum It is just as well to give it in an agreea-

ble way and by the natural passage

I had occasion to treat some cases DR DEAN of oxyuris vermicularis, and I used glycerine with good effect I related this to Dr Hermann, of this city, and sometime afterward he brought me two children who were troubled with oxyuris vermicularis, they were little girls, and the worms had gotten into the vagina, which is frequently the case used glycerine in these cases with good effect I advised him to be careful in the use of glycerine, I have however, but he got an excellent result often seen the good result of the use of glycerine injected into the rectum of children for this trouble The worms shrink and shrivel up, and it is only a few minutes until the bowels are emptied of the The astonishing feature to me is that the beneficial effect of glycerine in the condition mentioned by Dr Love has not been discovered before I have for many years used glycerine injections for these worms that I have mentioned, but it is only within a few days that I saw this use of glycerine in constipation suggested

Some years ago I read DR FRANK GLASGOW an account of a series of experiments which had been instituted by some Frenchman, who made various applications of medicine to the surface of the body for the purpose of determining whether they would be absorbed or not He found that

This is probably because there is into the blood an exosmosis going on, of the watery particles of the was the same process which caused the result, which June and had not seen anything in July would render inoperative the use of glycerine per rectum as a vehicle for the conveyance of systemic remedies

The suggestion which Dr Glasgow has made is a very good one, and it is probable that the use of glycerine for the purpose suggested by Dr Meyer would be contra-indicated I want to say that Dr Barclay failed to grasp the main idea in the paper, that is that the glycerine by injection on account of its affinity for water produces an irritation of the sentient nerves followed by a peristalsis, and this secures a prompt action, the impulse being given from below upward securing a prompt effect The administration of glycerine by the mouth has no bearing on the subject whatever

MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA

Stated Meeting, December 7, 1887 THE PRESIDENT, JOS TABER JOHNSON, M D. IN THE CHAIR

DR P J MURPHY read the history of and presented the specimen of a case of

HYDATIDIFORM MOLE

Mamie H, colored, æt 18, single, first applied at Columbia Hospital Dispensary for, as she expressed it, "womb disease," Feb 9, 1886 She began menstructing at 13 years and for the following two years she had no difficulty with the flow She then became irregular, being unwell two or three times a month, and again seeing nothing for six or seven weeks She suffered intense pain at every menstrual epoch June, 1886 and usually the flow was profuse Now has a great deal of pain in back and a feeling as if her insides were coming out below She has a profuse leucor accompanying relative and herself an examination time ago was made The vagina was found to be quite capa cious and the uterus was of about normal size There pregnancy in 1886 was marked retroversion and retroflexion of the uterus and its cervix was close under the pubes, the anterior forms of the vagina was obliterated She continued about the same, working in the capacity of household servant, and was admitted to the hospital June 22, following The uterus was now found enlarged, slightly, and prolapsed, posterior lip of cervix elongated and anterior lip occupied by a hard mass about the size of a hickory nut July 7, after some paroxysms of pain she passed off "something" that upon exammation proved to be a fœtus of about 5 weeks development She was discharged from the hospital August 24, feeling excellent She was not again seen until she presented herself again at the outdoor ser- a tumor? vice of the hospital, August 9, 1887, complaining of

of appetite, and very much worned about her "courses" She had been irregular and profuse durblood, to the glycerine It occurred to me that this ing the spring, had been unwell three times in Dr Love mentions, and if so it seems to me it visit her breasts were swollen, deeply pigmented about the nipples and presented to view many of the enlarged papillæ known as Montgomery's tubercles The uterus was very much enlarged, extending about half way up to the umbilicus, and was quite soft Knowing her previous history, pregnancy was sus-October 14 she again returned and stated pected she had been confined to bed, had been unwell three She was requested to weeks, and was still flowing keep quiet in bed and was given 20 grains of potassic bromide three times a day November 1st, presented herself, saying she had been unwell three days and was in a bad way Abortion was suspected, and an examination made A mass of hydatidiform cysts was found protruding from the vulva and As much of it extending into the uterine cavity was removed as possible without entering the cavity The patient was readmitted to hosof the uterus pital, put in bed, and given a hot carbolized douche Some slight hæmorrhage with passage of shreds occurred for two or three days, and she was given 25 drops of aromatic sulphuric acid three times a day November 6 she was etherized for examination There was marked resonance on percussion all over abdomen, uterus not felt above pubes by external manipulation Cervix uteri small, uterus enlarged and thrown forwards, and its cavity measured four inches in length, some slight bloody discharge, the growth in the anterior wall of the cervix was still prominent, the index finger passed into the cervix as far as the internal os She was given pil ergotin comp (Schieffelin), one three times a day November 19, uterus about normal size and condition, patient felt well and was discharged from hospital

She declared she had not had sexual intercourse since the date of her first admission to the hospital. This declaration may be false, yet it is

possible it was true

DR T C SMITH Dr Murphy's specimen is in-It will be remembered that he presented teresting rhoea, otherwise feels all right At the request of her a specimen and read the histories of two cases some The interesting point is whether the hydatid degeneration developed at the time of the The woman may abort one of a twin pregnancy and retain the other in a degener-In such cases the question of chastity is ated state at stake, and hence the importance of being careful in the expression of an opinion

DR D S LAMB read the history and presented the specimen of a case of

SENILE HYDROCEPHALUS

(This paper will be published April 21) DR ROBERT REIBURN read a paper on

ELECTRICITY IN SURGERY

(See page 455)

DR FRIEDRICH How long does it take to cure

considerable nausea and vomiting, constipation, loss a week and the sittings are about ten minutes each DR REYBURN One or two applications are made

DR LAMB Do the tumors always atrophy, or do was substituted for the positive needle they ever slough?

DR RIYBURN

DR LAMB In the case of the tumor of the neck would it not have been more satisfactory to have amount used the knife?

DR REYBURN The patient refused to submit to its removal with the knife It was about the size of His experience with the knife has its former bulk a small pear been very poor, as such tumors are apt to return

DR Lincoin was glad that this subject had been brought before the Society, as he had been greatly interested in it for some years, and during the past and is as actively engaged in her domestic duties as year has been employing it daily His results have ever warranted its application in a variety of pathological conditions, and in some instances have been sim- as well as an anodyne influence upon the nervous ply marvellous In October, 1886, he was called to system see a case of uterine fibroid of most formidable dimensions, in consultation with Dr Bayne and the lignant disease President of this Society The patient, a lady from Florida, had been suffering from the tumor for sev-reported several cases of cure of cancer, a woman eral years, and for eighteen months had been rendered almost helpless by its enormous bulk, which rendered it impossible for her to put on her own shoes and stockings The tumor filled the abdomen, reaching to the hiphord cartilage, and she was 15 large as a pregnant woman at term The whole length of the ordinary sound was lost in the uterine with each pole of the battery were introduced into cavity reduced to an extreme degree of emaciation. It was rent from 40 cells—probably, as the battery was a unanimously agreed that operative procedures were out of the question, and the proposition by him to try the effect of electricity was accepted, and after Locally extensive sloughs were formed about the weeks, during which hypodermatic injections of ergot were almost daily used, with the effect of diminishing the hæmorrhage, but not perceptibly reducing arrested for two weeks the bulk of the tumor, he applied the electric cur-A Fleming battery of 40 cells was used The positive needle, insulated to one inch from the point, was introduced through the abdominal walls at a point one inch below the umbilicus, so as to penetrate the tumor to the depth of three or four inches, while the negative needle was introduced through The whole strength of the battery was gradually brought to bear, and continued for twenty The introminutes without any considerable pain duction of the needle was not more painful than that of the ordinary hypodermatic needle, and no anæs-The first application was, then, thetic was used attended with no pain, it immediately arrested a copious hæmorrhage, excited by the introduction of the speculum, relieved a severe pain in the back which had existed for a long time, and produced in a high degree the usual sense of exhilaration and Two similar applications were made subcourage sequently at intervals of a week and ten days respectively, the needle being entered through the abdominal walls about an inch below that on the previous occasion

The tumor, which was of great hardness, and with difficulty penetrated by the needle, was greatly softened by the first application Subsequently in three or four applications a large electrode, 12 by 9 inches,

This gave more pain and was less efficient After the first ap-The current decomposes the tu- plication, though the negative pole was used through the vagina, there was no more hæmorrhage, men struction becoming normal in regard to time and The circumference of the abdomen was in a few weeks reduced by four and a half inches, the tumor sunk to the level of and a little below the umbillcus, and was apparently not more than one-fourth The patient now feeling almost en tirely relieved of her disabilities, became anxious to return to her family in Florida, and she soon after Since her departure she has continued well,

Electricity often has a very exhibitanting and tonic That may occur in cases where no local changes for the better can be hoped for e g in ma-

Some 12 or 15 years ago, about the time Nestel was assisted into his office in the last stages of cancerous cachexia, from a scirrhus of the breast He was at the moment using a Graves' battery of 60 cells in a couple of cases of progressive muscular atrophy, and the temptation to try its effects upon this otherwise hopeless case was great Two needles connected By an almost constant hæmorrhage she was the opposite sides of the scirrhus mass, and a curvery powerful one, of an electro-motor force of 200 milliampères-was continued for twenty minutes needles, the pain which had been intense was dissipated, and the progress of the disease was apparently The next morning the poor woman, who the dav before had been unable towalk except with assistance, met him at her door, busily occupied with her broom, and informed him that she This condition of relief from suffering, was well renewed appetite and increased strength continued for some weeks when the patient again came for another application, which was given with a similar but less marked effect, but after this she gradually de clined, suffering but little pain, until her death

About the same time he treated a large recurrent sarcoma of the breast in the same way with the result of relieving entirely the pain, apparent arrest of the growth (previously rapid) for considerable time, when resort was had to cunderango by the patient who unfortunately died just before a cure by that

agent was effected He has employed electricity in a large number of cases of chronic metritic and pen metritic inflamma tion, accompanied with adhesions and exudations, Neoplasms rapidly melt anay with the best results under its use and pain is, for the time at least, almost instantly abolished Indeed this wonderful relief from suffering through its agency is regretted by Engelmann as the patient is tempted thereby to believe herself cured before the essential organic restoration is accomplished

Of course, electricity like all other valuable agents

place He remembers that the late Secretary of the Smithsonian Institution placed in his hands for review some years ago, a French journal in which a most ardent and sanguine Frenchman advocated the amputation of large limbs by the electro cautery

In suitable cases and with a competent knowledge to find electricity of mestimable advantage The surgeon will find abundant occupation for his knife for ages yet to come, but many a man and many more women will have occasion to thank God for an escape from that last resort of an incompetent pro fession through the benign agency of this wonderful He would insist that all who propose to employ electricity should first learn something about it With the works of Erb, Apostoli, Bartholow and the most elaborate and excellent paper of Engelmann in the Transactions of the American Gynecological Society at hand, there is no reason for ignorance on the subject He would further insist on the importance of the use of the milliampère meter resistance of the tissues, particularly of the cuticle, varies so constantly that the meter is absolutely essential to the proper use of the current

In conclusion he would say, without fear of contradiction, that no one who has ever intelligently employed this agent will ever abandon it, and that he accepts electricity as a universal panacea distrust of it exists only among those who have had

no experience of its marvellous powers

DR J FORD THOMPSON said he felt as if he had lost his occupation and that there was now no use for the surgeon As this was a surgical question he had something to say Such methods are apt to be carried to extremes One should not base his reputation on the cure of fibroid tumors of the uterus for they not infrequently get well without any treatment A new treatment springs up and a few enthusiasts claim to cure all cases At one times ergot was used for the radical cure, and for a time a great many physicians were running over with it, but its time was short He had frequently seen these tumors get well after treatment had been suspended In one case the woman was so large that she was confined to the bed and compelled to he upon her back She had had electricity, and he was called in to decide about an operation He declined to operate and she got better without any treatment How many maelectricity to it. He was summoned in great haste of the prominence of the eyeballs. The patient can and found the woman bleeding to death. The breast be made more comfortable and less conspicuous was filled with a blood clot, the skin had ruptured, it did not get well until its removal

growths are not cystic, and do not require any such the fissure of the lids

will be used by enthusiasts when it is quite out of treatment, in fact they often do better when let He never operates in the condition to which alone Dr Reyburn refers He thought electricity an agent for good, but it is too apt to be abused by enthusiasts A few cases of stricture of the rectum, treated by Newman, of New York, is worthy of mention Thompson diagnosticated cancer of the rectum in a of its nature and proper application, no one will fail student of medicine Drs Agnew and Sands agreed with his diagnosis He then went to St Luke's Hospital, in New York City, where a young physician cut the stricture The patient stayed in the hospital until the wound healed and then went to Boston where he was under treatment for sometime was almost insane and was sent to his mother in a deplorable condition He heard of Dr Newman and determined to try his treatment Dr N applied electricity for several months In about eight months a stout, healthy looking man entered Dr T's office but was not recognized He said Dr N could introduce an electrode as large as a hen's egg The rectum was dilated and there was a ring of hard The tissue present, but the man was apparently healthy He does not believe that this man has been cured but he is practically well and may live a useful life In large hospitals such cases are for many years surgical curiosities

Finally, he is willing to wait a little longer before

PHILADELPHIA COUNTY MEDICAL SOCIETY

THE VICE-PRESIDENT, W W KEEN, M D, IN THE

Stated Meeting, March 14, 1888

Dr J Madison Taylor read a paper on

THE EARL' RECOGNITION OF GRAVES' DISEASE (See page 452)

DR S D RISLEY I would like to ask Dr Taylor whether there is any indication by which the development of exophthalmos can be expected in cases in which it has not yet appeared

Dr J B ROBERTS I believe that the great ocular deformity which is so unpleasant to the patient, and attracts so much attention, can be remlignant tumers are reported on good authority as edied by a very simple operation merely putting a being cured by electricity? He had never seen such stitch at the outer canthus, after freshening the a case in his practice Sometime ago he was called edges of the lids, to diminish the optic commissure to see a case of cancer of the breast that had been after the case has made such progress that it is reas under the care of a specialist who had been applying onably certain there is to be no further diminution

DR EDWARD JACKSON The procedure sugand there was a fungus growth He amputated the gested by Dr Roberts might be resorted to for Everything between the skin and other than cosmetic reasons I recently saw a case the ribs was a mass of pulp resembling clotted blood of this disease, with very great exophthalmos, in and the arteries had ruptured This was an extreme which one eye had been lost through sloughing of the case with the intense application of electricity, but cornea due to exposure, and I afterward learned that the second eye had been lost in the same way Dr Reyburn frightened the goitre away Such Such an accident might be prevented by narrowing

Dr A V Miigs has completely recovered from this disease, a woman who had a very severe attack many years ago, under the care of my father The prominence of the eyes, which was very great, is now hardly noticeable, and yet no operation was ever done think much would be gained by sewing up the canthus, for while the disease is in its acute stage, it is hardly likely the operation would afford much relief, and later, if the patient recovers at all, the I think I know the case Dr difficulty cures itself Roberts had in his mind when he spoke, and Dr de ganic lesion of any kind has been detected either Schweinitz, who has seen the woman in question, will probably agree with me that nothing would be sible that this may be an early stage of Graves' dis gained by an operation One thing I have learned of recent years, and it is that it is not necessary in all cases to put the patient in bed I could mention three or four cases I have successfully treated with tonics and proper regimen, without its becoming necessary to have rest in bed, the cases, to be sure, were not severe Dr Taylor speaks of the early recognition of the disease For my own part, I do not see how a positive diagnosis can be made until we have at least two of the features of the disease present, namely, the cardiac palpitation and some thyroid enlargement, the prominence of the eyes occasionally does not manifest itself, but a diag nosis can undoubtedly be made in its absence

DR G E DE SCHWEINITZ case that Dr Meigs refers to, and I saw nothing to be gained by surgery The eyes were at first very prominent, but they were then receding, and now the normal relation of lids to eye-balls is restored Inasmuch as there was considerable myopia, and hence not uncommon prominence of myopic eyes to begin with, they will always be more or less con-

spicuous

I have been extremely in-DR S Solis-Cohen terested in this valuable paper of Dr Taylor's, the more so that I think I recognize in his first case a patient whom I have seen, but in whom I did not She was treated at the recognize this disease Jefferson Hospital some three years ago for anæmia, and was apparently cured A year ago she returned with the history of "fits" spoken of by Dr Taylor, and was irregular in attendance and unreliable in probably preventing the careful investigation the characteristic symptoms of Graves' disease after the remarkable that thyroid enlargement should have a near and loved relative, and the discovery that he paratively frequent discovery of it at one time, in nence of the eye-balls was in this case very slight, cases of cardiac and vaso-motor disturbance, has put all the clinical assistants on the lookout for the I can thoroughly agree with Dr phenomenon Taylor that vaso-motor paresis plays an important part in the development, if not in the genesis, of The only case I have seen in the male this disease subject occurred in a young man subject to frequent companied with high temperature, in whom the It usually marks the height of the disorder, though rapidity of the heart's action had led to a diagnosis this may be the first feature noticed, especially when of hypertrophy of the heart, not warranted by it arises suddenly as from shock or overwrought physical exploration The eyes were not involved emotion

I know of one person who at the last time I saw the patient, nor was thyroid enlargement sufficient to attract attention without special examination I have now under my care in private practice a young lady not at all hysterical, subject to similar attacks of flushing which some-I do not times leave behind for a short time wheals like those of urticaria who has also had two attacks of sudden transient blindness, after which all that could be detected in the fundus was moderate congestion, and whose cardiac action, rapid and irregular at these times, is at other times perfectly normal No orby me or by more competent observers It is pos-Improvement has taken place under minute doses of picrotoxin, a drug which Dr Bartholow has prescribed in cases of exophthalmic goitre, at the hospital, with very good results One case especially I recall which was associated with purpura I would like to know whether Dr Taylor has met with A very interesting case of acute this association exophthalmic goitre presented at the clinic, which Dr C J Wilson may remember as the subject of one of his clinical lectures, an anæmic young girl affected from childhood with nystagmus, in whom goitre and exophthalmos were asserted to have developed within a short time after a fall from a ladder She was unable to button her collar, which friends I have examined the had opened in attending to her after the accident

DR J C Wilson recalled the case mentioned by Dr Cohen, but not with sufficient distinctness to add anything of importance to the account already Dr Wilson briefly narrated two cases of Graves' disease, recently seen in his private practice, in which the symptoms developed rapidly after The patients were young women mental shock The first, a servant, aged 24, of previous good character, was engaged to be married to a joung man who was by occupation the driver of an ice cart Within a day or two of a visit to her, he was acci dentally killed, and her first knowledge of his death came through the newspapers Cardiac overaction at once developed, and within a month thyroid enlargement, and slight exophthalmos and large doses of Fowler's solution complete re The second case was covery took place in a year that of a lady, aged 20, who rapidly developed the I consider it the more shock and grief occasioned by the disappearance of treatment by rest and arsenic decided improvement took place It is now a month since she last re-

In reply to Dr Risley's query, Does any sign clearly foreshadow the exophthalmos? I can only say that I know of none, nor did I see anything in the literature of the subject to aid us

DR CHARLES B NANCREDE read a paper on THE IMPORTANCE OF PRIMARY SUTURE OF DIVIDED NERVES

(See THE JOURNAL of April 7, p 427)

I have seen one or two DR H R WHARTON cases of primary nerve-suture, though none in which the injuries were so extensive as in this interesting case of Dr Nancrede's The results in these cases There is another point to be consid Shall we attempt secondary suture of the nerves when this has been omitted in the first place? I am very decidedly of the opinion that this procedure should be adopted, for a number of cases have been reported of this character in which the results have been, at least, good enough to make me feel that secondary suture should be attempted when there is any probability of restoration of the use of the injured part I thoroughly agree with Dr Nancrede as to the great importance of this subject

DR JOHN B ROBERTS The only case of nervesuture I remember at present is one in my wards, in which the work had very properly been done by the resident immediately on the admission of the patient It was a rather extensive incised wound of the leg, involving, I think, the musculo-cutaneous and ante-The muscles and nerves were surior tibial nerves tured and dressed antiseptically, and the results were above the wrist so as to make an accurate report as to sensation Dr Nancrede has incidentally touched upon a point of the nerve and found that it had been divided great importance, that of teno suture It has been my misfortune to meet with quite a number of cases in which this had been neglected by the attendant called at the time of the accident One of these recently seen was that of a man wounded in the forewas loss of flexion of the finger, but it was hard to physician believed it to be the wrist, but after cutting down, I found the tendon here flaccid and in-I then opened the finger-wound, and here found the tendon retracted into the sheath I sutured, but did not get a good result, probably from the extent of dissection necessary to get at the tendon in the sheath, and the great mass of cicatricial However, I never hesitate to reopen healed or partially healed wounds to suture tendons when this very important measure has been neglected

sis can be secured without chemical solutions This fingers is in marked contrast to one of my friends, a surgeon of prominence, who thinks that the employment of solutions renders care as to cleanliness unnecessary

DR J WILLIAM WHITE and bruised ends of the nerves The general prin- above the wrist ciples of nerve suture are admitted by all surgeons,

erable portion we increase longitudinal tension, and make greater strain on the sutures, on the other, we run the risk of including in the stitches tissue too There is some difmuch damaged to recover itself ference of opinion as to the particular suture to be I should think that the one proposed by employed Dr Nancrede, as shown in his diagram, would be open to objection if, as there apparently represented. it interposes a foreign substance, the catgut thread, between the ends of the nerve, this, if not absorbed. as is sometimes the case even with the best catgut, is liable to be a constant source of irritation, and to prevent union I prefer and employ a suture passing quite through the nerve above and below the point Evidence, either clinical, or pathological, of union or experimental, as to the relative advantages of different sutures is desirable, but I do not know of any, and I did not understand Dr Nancrede to say that there was such evidence

THE CHAIRMAN There are two cases I may briefly cite from my own experience in connection with the subject of our discussion

1 A case of primary nerve-suture in a boy 2 years. of age, with perfect recovery of motion and sensa-The case occurred ten years ago carrying a glass bottle, fell, and a fragment of glass. divided the ulnar nerve and artery about 11/2 inch The mother made compression good, though I did not follow the case after discharge with her thumb until I arrived, very soon after the After ligaturing the artery, I examined accident only my pocket-case containing coarse white silk and an ordinary needle Not wishing to leave the coarse silk in the wound, particularly not in the nerve tissues, I debated as to the method of suture, and devised one which proved eminently satisfactory. arm just above the wrist, and in the ring finger There Drawing the ends together closely with forceps, I passed a surgical pin obliquely through the two divitell which of the wounds to reopen in order to come sions, threw a loop of silk around the point of the upon and suture the divided tendon. The family pin (as in Simpson's method of acupressure), drew out the thread, passed it around the head of the pin, where it was secured At the end of forty-eight hours the pin was removed The thread was thus loosened and removed Perfect union of the wound took place in a few days There was no wasting of muscles, and motion was present after twenty-four hours. While the age of the child prevented exact observations as to the time at which sensation returned, at the end of forty-eight hours there was an exclamation of pain on pricking the little finger with a pin I have been glad to hear Dr Nancrede say that I saw the father of the boy about a year ago, who with cleanliness of person and of instruments asep- told me that his son had perfect use of hand and

Extensive teno-suture with quick union recent case shows the value of even a brief suture of tendons A man 25 years of age was admitted I do not know whether into St Mary's Hospital with complete severance of Dr Nancrede spoke of the resection of the crushed all the tendons of the forearm and of the sheath The resident sewed each tendon but the question of resecting lacerated or contused not remain more than three to five days, and then ends before suturing, or of allowing them to remain, closed the external wound and placed the hand in is one that should be carefully considered in each flexion on a splint. The man left without permission case On the one hand, by resection of any consid- after a few days, and it seems removed the splint and

tore out the sutures in the skin with a gaping wound in the forearm, but on testing had the hot moist sponge on his neck all the time the fingers separately each finger and each joint was In eight days he was strong enough to drive to his found to have perfect motion, showing that even this place of business, but was prevented by his mability temporary apposition of the divided tendons had a to keep the sponge warm. As soon as he went outperfect result I should prefer for the purpose, how- doors and the sponge became cold the cold air pro ever, either very fine silk or, better, the ordinary duced an excessive cough and some pain in his lungs

chronicized catgut

DR NANCREDE I pass around he will see that the nerve is securely nasal secretion-I connected the tracheal tube with and accurately coaptated by the suture distinct recollection of resecting the injured ends in this way the air from his lungs passed through his this case, in fact, I am nearly certain that I did not | mouth, up behind the soft palate and out his nose In some cases I have said it might be desirable, but This enabled him to blow his nose as perfectly as he I am dubious about it In two other cases that I had ever done During inspiration the air passed recall at this moment, I remember that I did not through his nostrils, mouth and rubber tube into his make any attempt of the kind, but brought the ends lungs through the tracheal tube, thus giving it nearly together as best I could Referring to the incidental the normal degree of warmth and moisture discussion, I am glad to hear that so many of our members always suture tendons I make it a rule to suture nerves and tendous in every case, and generally obtain fair results

Dr Howard F Hanseil presented a

CASE OF ECTOPIA LENTIS.

This colored boy presents Clarence P, æt 10 A peculiar shape of head, deseveral deformities viation of spine, anterior curve of each tibia, and is more or less undeveloped I have asked him to present himself before the Society in order that those members who may be interested may have an opportunity to see a case of "ectopia lentis," congenital upward displacement of each lens margins of the clear lenses may be distinctly seen about the centre of each pupil The right lens is dislocated upward, the left upward and outward Each eye is highly myopic—i e, as seen through the lens, and hypermetropic as seen under the lens The temporal side of each nerve shows a large patch of atrophic choroid - post-staphyloma There is no With the right eye coloboma of the iris or choroid the boy can read large print only when held 21/2 inches from the eye in an upward and outward posi-The left eye is useless

NEW INSTRUMENTS

TRACHEOTOMY RESPIRATOR BY THOS F RUMBOLD, M D, OF ST LOUIS

On February 21, 1870, with the assistance of Dr Wm Neihaus, of this city, I performed tracheotomy on Mr Wm D, at 43 years Immediately after he was placed in bed I had a large sponge, that was squeezed out of quite warm water, laid over the This warmed and moistened the air as it entered the lungs, thus preventing the necessity of having the air in the room unduly heated the tracheal tube and moistened, which is usually found beneficial in

He returned later tracheotomy cases While he was in the house he

For the purpose of allowing him to have warm Dr White has misunderstood moist air all the time, and also to allow him to blow There is nothing between the divided ends of his nose-which gave him a great deal of trouble and If he will examine the rough model which much discomfort because of the presence of profuse I have no a rubber tube, which he placed in his mouth In



Figure 1, Illustrating the application of an apparatus for conducting the warm and moist air from the mouth and nasal passages to the lungs in cases of tracheotomy a, tracheal tube in place b, short rubber tube connecting the tracheal tube with the secretion trap e, secretion trap, to catch the muco purulent secretion that is coughed from the trap, to catch the muco purulent secretion that is coughed from the lungs, and the condensed vapor from the mouth d, soft rubber tube lungs, and the mouth with the trap and tracheal tube. In the trap c is a small bag of pulverized charcoal to deodorize the secretions

It was found after a short trial that the muco-puru lent secretion from the lungs, and the condensation of the moist air from the mouth and nose, as well as some saliva from the mouth, accumulated in the rubber tube, which when they passed into the trachea caused intense spasmodic coughing For a few days he partially prevented this by clearing the rubber tube after taking it out of his mouth, by coughing through it rather forcibly As it was quite difficult to cleanse the rubber tube of the muco purulent secretion in this way I had a glass receptacle attached to the tracheal tube and the tube going to his mouth, so that the secretions were prevented from entering I have called the apparatus a "Tracheotomy Res-

pirator" I have applied the same kind of an ap- tion and disinfection paratus to other patients upon whom I have performed tracheotomy In one case of malignant and disinfection disease of the larynx, the patient's breath through the tube produced an intolerable taste For the purpose of correcting this I put a small quantity of pulvenzed charcoal, tied in a small bag, into the glass portion, or what might be called the secretion trap This has a partially good effect

Figure 1 illustrated the application of the appar-Figure 2 a section of the secretion trap of the

apparatus

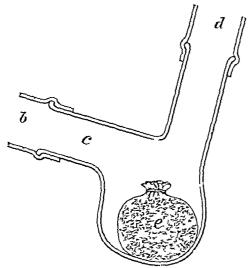


Figure 2 a section of the secretion trap of the Tracheotomy Respira tor δ short rubber tube connecting with the tracheal tube ϵ the secretion trap d the soft rubber tube which is about 7 inches long that passes to the patient's mouth ϵ , a small bag of pulverized char

DOMESTIC CORRESPONDENCE

PREVENTION OF DIPHTHERIA

Dear Su -On page 397 of THE JOURNAL, March 31, is a "formula for the prevention of diphtheria," which is "an abundance of pure air, good water, wholesome food, clean soil and a clean personality" Have you not accidentally given the wrong formula? Very extensive observation of statistical and other reports on this subject seems to show that diphtheria is about as prevalent among those who employ this formula as among those who do not, while the statistics are conclusive in proving that under another formula the disease is preventable. On page 489 of THE JOURNAL, Oct 15, 1887, is a diagram, which shows that in 102 outbreaks of diphtheria in which Diseases of the Heart and Circulation in Inisolation or disinfection or both were neglected, there was an average of a little over sixteen cases and three deaths to the outbreak, that during the same time in 116 outbreaks in which isolation and disinfection were both enforced, there were only about one fifth as many cases and deaths, which seems to prove that there was a saving of about

The correct formula for the prevention of diphtheria would seem to be isolation Very respectfully,

HENRY B BAKER, M D

Lansing, Mich, April 2, 1888

A CORRECTION

Dear Sir -By some unintentional error, I find the article on "Methods of Examination of Bacteria for Laboratory Purposes" in Vol X, No 13, (March 31, 1888), ascribed to me, whereas the author is George W. Nash, M.D., of Boston

Very truly, SAMUEL N NELSON, M D

Boston, April 4, 1888

STATE MEDICINE

SANITARY PRECAUTIONS IN PENNSYLVANIA

To all Local Boards of Health and Borough Councils in Pennsylvania -This Board has received official information since the first of the year of the existence of small-pox in nine States of the Union Two outbreaks have occurred in this State State Board of Health of California has declared it epidemic in that State

It is raging with great virulence in the neighboring island of Cuba, where sanitary precautions appear to be extremely lax, and with which we are in constant communication It has prevailed extensively during all the past winter in portions of Great Britain

In the neighboring State of Delaware cases exist, and several deaths have occurred as the result of the importation of infected rags This Board therefore deems it its duty to urge upon all municipal and sanitary authorities the importance, First Of doing all in their power to promote vaccination in their respective communities, and Secondly Of keeping all new comers and returned travellers, and especially all immigrants, under observation for fourteen days after their arrival, in order that should symptoms of this disease manifest themselves steps may be taken to circumscribe and isolate the centre of infection with the least possible delay

> By order of the Board, Benjamin Lee, Sec'y

Philadelphia, March 15, 1888

BOOK REVIEWS

FANCY AND ADOLESCENCE By JOHN M KEATING, M D, etc, and WILLIAM A EDWARDS, M D, Illustrated with Photographs and Wood Engravings 8vo, pp 215 Philadelphia P Blakiston, Son & Co 1888 Chicago W T Keener This work appeared in instalments in the Archives of Pediatries, prior to its issue in book form four-fifths of the cases and deaths by thorough isola- authors have made an excellent systematic work

upon the heart with especial reference to its diseases as they occur in infancy and childhood periodical literature has been most carefully culled, so that we find in this work a synopsis of the most recent researches into the pathology and therapeutics of the heart Its contents are embraced in ten chapters which describe the following subjects Methods of Study, Instruments, Feetal Circulation, Congenital Diseases, Malformations, Cyanosis, Acute, Chronic and Ulcerative Endocarditis, Acute and Chronic Pericarditis, Treatment of Endo- and Pericarditis, Paracentesis Pericardium, Hydro-pericardium, Hæmo-pericardium, Pneumo-pericardium, Myocarditis, Tumors, New Growths and Parasites, Valvular Disease, General Diagnosis, Prognosis, and Treatment of Valvular Disease, Cardiac Neurosis, Angina Pectoris, Evophthalmic Goitre, Diseases of the Blood, Plethora, Anemia, Chlorosis, Pernicious Anæmia, Lukæmia, Hodgkins' Disease, Hæmophilia, Thrombosis, and Embolism

The work deserves commendation as an excellent treatise upon its subject. We were surprised to find the blunt statement made, that the authors had "never derived any appreciable benefit from convalaria in any way whatever, and indeed it seems that the drug merits no place in our considera-Unfortunately it is true that the preparations are so often variable in strength that they are not always reliable, but certainly from good preparations "appreciable benefit" can be obtained also, from their own experience, doubt the tendency of digitalis to accumulate in the system and produce suddenly toxic effects

Two photographic illustrations of hearts with mitral valvular lesions have been introduced into The photographs are very well made, but as is so apt to be the case where pathological specimens are thus depicted, the detail is so obscure

that the illustrations are not very instructive

MISCELLANEOUS.

RUSH MONUMENT COMMITTEE —The Rush Monument Com mittee will meet at Cincinnati during the meeting of the Amer-The hour and place of meeting will ıcan Medical Association be announced from the platform on the first day of the meeting GEORGE H ROHE, Secretary

HON MARSHALL D EWELL, LL D, one of the Faculty of the Union College of Law in this city, has been appointed Lec turer upon Medical Jurisprudence in the Law School of Cornell University for the next college year. This does not sever his official relations to the Union College of Law, in which he will still give his usual courses of instruction

HEALTH OF MICHIGAN FOR MARCH, 1888 -For the month of March, 1888, compared with the preceding month, the re ports indicate that tonsillitis increased, and that remittent fever and bronchitis decreased in prevalence Compared with the preceding month the temperature for the month of March, 1888, was higher, the absolute humidity was slightly more, the relative humidity was slightly less, and the day and the night ozone were less Compared with the average for the month of March in the nine years, 1879-1887, measles were more prevalent, and intermittent sever, diphtheria, consumption of lungs, remittent fever, pneumonia, whooping cough, scarlet fever and inflamma tion of kidney were less prevalent in March, 1888

For the month of March, 1888, compared with the average of corresponding months for the preceding nine years, 1879-1887, the temperature was slightly lower, the relative humidity was more, the absolute humidity and the day and the night ozone were less Including reports by regular observers and others, diphtheria was reported present in Michigan in the month of March, 1888, at twenty five places, scarlet fever at thirty three places, typhoid fever at thirteen places, measles at forty nine places, and small pox at one place

Reports from all sources show diphtheria reported at fifteen places less, scarlet fever at twelve places less, typhoid fever at four places less, and measles at ten places more, in the month of March, 1888, than in the preceding month Small pox was reported present at one place, both in February and in March,

but has now disappeared from the State

THE CENTRAL KENTUCKY MEDICAL ASSOCIATION WILL meet at the Phoenix Hotel, Lexington, on Wednesday, April 18, 1888, at 10 o'clock, A M

MEDICAL ASSOCIATION OF THE DISTRICT OF COLUMBIA -At the regular annual meeting, held on April 3, the following officers were elected for the ensuing year W W Johnston, M D, President, W W Godding, M D, and C W Frazoni, M D, Vice-Presidents, Geo C Ober, M D, Secretary, and S S Adams, M D, Treasurer

GYNÆCOLOGICAL SOCIETY OF BOSTON -At the annual meeting, held Jan 12, 1888, the election of officers resulted as follows Dr H C White, President, Dr A P Clarke, Vice President, Dr W S Brown, Treasurer, Dr H J Harriman, Secretary, Drs J F Frisbie, H O Marcy and E C Kellar, Committee on Admission, Drs E W Cushing and I W Star bird, Committee on Pathology

NEW BOOKS RECEIVED

Physicians' and Students' Ready Reference Series Obstetric Synopsis By John S Stewart Illustrated Philadelphia F H Davis

Transactions of the Academy of 'Iedicine in Ireland, vol v Edited by W Thomson The Year Book of Treatment for 1887 Philadelphia Lea

Brothers & Co

The Prescription Therapeutically, Pharmaceutically and Grammatically Considered By O A Wall St Louis Aug Gast

The Surgical Diseases of the Genito urinary Organs, including Syphilis By E L Keyes A Revision of Van Buren and Keyes' Text book upon the same subject New York D Appleton & Co

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM MARCH 31, 1888, TO APRIL 6 1888

Col Jededich H Baxter, Chief Medical Purveyor, Major Chie. R Greenleaf, Surgeon, detailed as members of an Army Returing Board, appointed to meet at Washington, D C, on Wednesday, April 4, 1888 S O 75, A G O, April 2, 1888 Major Chas H Alden, Surgeon, will repair to Washington, D C, on public business, and on completion thereof will return to his station, West Point, N Y, S O 75, A G O, April 2, 1888

2, 1888

Capt Victor Biart, Asst Surgeon, having been found incapici tated for active service by an Army Retiring Board, sick leave of absence is still further extended until further notice on ac count of disability S O 77, A G O, April 4, 1888

Capt Edwin F Gardner, Asst Surgeon, leave of absence ex tended fourteen days S G 77, A G O, April 4, 1888

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIFS OF MEDICAL OFFICERS OF THE U S MARINE HOS PITAL SERVICE FOR THE FOUR WEEKS ENDING APRIL 7 1888

P A Surgeon S T Armstrong, granted leave of absence for fourteen days March 21, 1888

A Surgeon W D Bratton, promoted and appointed P A Surgeon from April 6, 1888 April 2, 1888

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

PUBLISHED WEEKLY

Vol X

CHICAGO, APRIL 21, 1888.

No 16.

ORIGINAL ARTICLES.

NASAL FIBROMATA

Read before the Section on Laryngology of the Ninth International Medical Congress, Washie gton, D. C., Septem ber, 1887

BY W E CASSELBERRY, M D, OF CHICAGO ILL

PROFESSOR OF MATERIA MEDICA AND THERAPEUTICS AND OF LARYN GOLOGY AND RHINOLOGY IN THE CHICAGO MEDICAL COLLEGE MEDICAL DEPARTMENT OF THE MORTHWESTERN UNIVERSITY

Under this title it is proper to include only neo plasms of a purely fibrous or predominating fibrous structure which originate in the pasal fossæ anterior Tumors in this situation are to the naso pharynx prone to assume a compound type, eg, the fibromyxomata and the fibro sarcomata The scope of floor of the nose this paper will not permit of consideration of these, notwithstanding their intimate relationship to the Likewise of fibromata which originate in the neighboring sinuses, and which involve the nose only secondarily, must such meagre mention suffice as is essential to the elucidation of the nasal growths proper

Recent literature has contained numerous reports of cases of naso pharyngeal fibromata, recounting the various operative procedures for their removal, includthe hard palate by Gussenbauer, osteoplastic resection of the superior maxilla by Langenbeck, Rouge's operation and the recent method by Furneau-Jordan Nor have rhinologists failed to emphasize the advantages of the intra nasal or intra-pharyngeal galvanocautery method as I will urge in nasal cases the use my own

Fibromata originating primarily in the nose antemor to the naso pharynx are comparatively rare The Internationales Centralblatt fur Laryngologie, Rhinologie und verwandte Wissenschaften, a journal of abstracts of all current literature pertaining to these departments, does not contain a report of a single case during the last three years

None are included in 265 cases of nasal neoplasm reported by Hopman, of Cologne (248 cases), and Schimegelaw, of Copenhagen (17 cases) Of this series there were 121 my lomata, 63 my lomatous hypertrophies of turbinated bodies, 24 papillomata, 1 lupus and 1 sarcoma

Yet their occasional occurrence has been recognized probably from the time of Hippocrates, who

had a large experience in connection with nasal "In cases of hard polypi Hippocrates' directed that the nostril should be slit open in order that the tumor might be thoroughly extirpated, and the roots afterwards destroyed by the hot iron "

Celsus treated polypi in various ways, but he strongly disapproved of meddling with the harder tumors, which he considered malignant

Modern authors treat briefly of the subject Stoerk's mentions fibromata as originating from the submucous structures Cohen' briefly but lucidly describes the neoplasm and mentions its comparative infrequency Sajous' mentions the roof as its favorite site in the nose, but remarks that cases have been reported in which fibrous polypi sprang from the septum, the inferior turbinated bones, and even the He further notes the rarity of its primary occurrence

"Fibromata may develop in any Wagners writes portion of the nasal cavity the floor of the fossæ, the turbinated bones, or lateral walls," and reports two cases

Robinson thinks it so unusual in the nose and so usual in the naso-pharynx that he considers difference in location a point in diagnosis between fibroma and myxoma

Mackenzie has reported a single case of his own ing preliminary subperiosteal resection, resection of and two others probably fibromata, and remarks in "Though fibrous polypus of the this connection naso-pharynx is not unfrequently met with, this form of tumor extremely seldom originates in the nose itself, the only case, so far as I am aware, in which such a growth has been proved to exist being one of There are, however, two other instances of similar means in preference to the other graver, in which there is every reason to believe the tumors disfiguring, and sometimes fatal operations were fibromatous." It seems probable, however, that nasal fibromata are really more numerous than the few cases recently reported would indicate—a probability which tends to enhance our interest in the subject

Growths in the nose and naso-pharynx in a measure correspond in type to the structural elements of the tissue from which they originate mucous membrane consists of two layers a superfi-

¹ De Morbis lib ii Lettré s Ed Paris 1851 vol ii p 51 Mack enne Diseases of the Throat and Nose Wood's Ed vol ii, p 245 2 De Comt pharm see locos lib iii cap iii Mackenzie's loc cit 3 klinik der Kranl heiten des Kehlhopfs der Nase und des Rachens

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cial mucous stratum which is covered by epithelium, and a deep fibrous layer which has the position and functions of periosteum and perichondrium . In the upper or olfactory tract these two strata are closely adherent, while in the lower or respiratory tract they are separated by variable quantities of connective The fibrous layer has been shown by Panas10 to be especially abundant and more densely fibrous at the upper and posterior part of the septum and the immediately adjoining space on the base of the skull, hence the frequency of naso-pharyngeal fibromata, while in the anterior nares it is least abundant, and hence the more common occurrence in this location of the myxomata Further, between these sites, around the posterior nares, the membrane presents a kind of transitional form, and growths in this nasal fibroma collected in this paper three were fe situation are likely to present a corresponding fibro-This observation, in connection with mucous type the assertion of Stoerk" that polypi arising from the mucosa (superficial layer) are of mucous structure, while those arising from the submucosa or periosteum are fibrous, affords a reasonable explanation of the comparative infrequency of true nasal fibromata True, the attachments of ordinary myxomata are sometimes traceable to the periosteum or to the bone, but it is probable that they have first originated in the superficial mucosa and only subsequently penetrated to the deeper structures, or else, as Woakes!" suggests, they have taken deep origin from the mucous elements which dip into and line the cells of the spongy bones

Nelaton, cited by P Koch,13 has advanced the opinion that fibrous polypi of the nose are never of a primary nature, but always proceed from neighboring sinuses, e g, the antrum of Highmore, etc practical refutation of this theory is furnished by a case reported by Gerdy in which, on post-mortem examination, a fibroma was found to be attached to the posterior part of the vault of the left nasal fossa

Fibromata may arise from any part of the nasal The vault, especially its posterior portion, is the favorite site, since here is found in greater abundance the fibrous stratum from which they primarily originate, but the turbinated bodies, the cribriform plate of the ethmoid bone, the septum, and the floor of the nose may furnish points of origin More or less extensive secondary adhesions may form in the course of the expansion of the growth as the result of friction and pressure, so that it is sometimes difficult to determine the original point of attachment

Of the accessory cavities the antrum of Highmore is a favorite site of origin, fibromata in which become very large and encroach secondarily upon the cavities of the nose and orbits, and next in order are the frontal sinuses, tumors from which extend into the same cavities

The etiological factors in the development of fibro-

mata are not definitely known, but a local irritation from traumatism may serve to excite a hyperplasia of the fibrous elements, as in one case of fibroma of the septum which was directly attributable to a blow In other instances a localized perveron the nose sion of the chronic hypertrophic inflammatory pro cess may act as the exciting cause by stimulating the fibrous elements to unusual proliferation

Both sexes and all ages seem equally hable In this respect the disease differs from naso pharyngeal fibroma, of which Lincoln14 collates 38 genuine cases, all of them males under 25 years of age Nelaton," cited by Mackenzie, knew of no example of naso pharyngeal fibroma becoming developed in a female of any age or in a male over 35 Of six cases of males, one of 35 years, one of 39 years and one of 50 years of age

The rapidity of growth, as indicated by the dura tion of the symptoms up to the time of operation, averages about two years The early symptoms are those of a catarrhal nature, followed by obstruction and distension of the fossa Its development con tinues to the detriment of bones or cartilages that may be in the way These are absorbed, enveloped and rent asunder, the neoplasm penetrating into fis sures, accessory sinuses and neighboring cavities The bridge of the nose is flattened, the eyes bulged forward and the cheeks swollen, the whole constitut ing the hideous deformity known as "frog face" Fre quent and dangerous attacks of epistaxis may pro ceed from surface ulcerations Extension upward may open the cranial cavity

A probable diagnosis is not difficult Its appearance in situ differs much from that of the mucous polyp It is not multiple, but may be lobulated The base is broad, the color is dark red, there is no translu cency, and it is firm and resistant to pressure by a probe It is more difficult to distinguish it thus from The microscope is the fibro-sarcoma and sarcoma only means of positive diagnosis

Fibrous tumors in this situation present the ordi nary pathological characters of fibromata in general, In consistence they vary, being sometimes very dense and at other times softer and more succulent The fibres which constitute the chief part of the growth are grouped in bundles of various sizes, or are simply closely interlaced and devoid of definite arrangement A few minute cells, either round or spindle-shaped, may be present among the fibres or in larger num The vessels are not bers around the blood vessels usually numerous, but it is probable that the tumors, or parts of them, may partake at times of the erectile structure of the turbinated bodies A smooth fibrous capsule usually envelops the whole

Concerning the prognosis, nasal fibroma tends to degenerate into sarcoma when it is incompletely re moved, or even without any interference There is a tendency to recurrence after removal, although, if thoroughly extirpated and the base cautenzed to the bone, the prognosis should be good

O Mackenzie Am Ed ii p 238

10 Bull de la Soc de Chir, 1873 Mackenzie Diseases of the
Throat and Nose Wood's Ed vol ii, p 368

11 Die Krankheitender Nase, 1880, S 90

12 Die Krankheitender Nase, 1880, S 90

¹¹ Die Krankheitender Nase, 1880, S 90
12 Nasal Polypus, etc., in Relation to Ethmoiditis, 1887 p 9
18 Internationales Centralblatt für Laryngologie, Rhinologie und ver wandte Wissenschaften, December, 1885, p 256

¹⁴ Archives of Laryngology, October, 1883, p 258
15 Rapport sur les Progrès de la Chrurgie Paris 1867 p 235
16 Rapport sur les Progrès de la Chrurgie Paris 1867, Ar Ed
Mackenzie Diseases of the Throat and Nose, vol 11 p 407, Ar Ed

I have tabulated and appended the records of eight solution on cotton introduced and allowed to remain cases, including one of my own which is also related in contact with the fibroma for three minutes

Mrs R, at 39 years, first had a nasal polypus described as an ordinary myxoma removed from the left nasal fossa, by means of forceps, about ten years ago She remained well for five years and then again noticed gradually increasing obstruction, and later a dark reddish mass presenting at the left anterior nasal Four years ago she submitted to operation under chloroform The operation was a failure, only a few small pieces being removed by means of forceps and without the aid of artificial illumination hæmorrhage was occasioned at the time and continued intermittently for weeks No relief was af-She declined further interference until February, 1886, at which time she came under the observation of Dr W T Coleman and Dr A P Gilmore, of Chicago, through whose kindness I have a portion The left nostril was much distended, of the record showing evidence of commencing frog-face, and the fossa anteriorly was thoroughly filled in all directions by a firm elastic tumor which projected slightly from the anterior aperture There was no undue prominence over the antrum of Highmore, nor encroachment upon the orbit These gentlemen operated skilfully by means of the galvano cautery to include the neoplasm failed on account of its large size tight fit and numerous adhesions So the lower portion was slit up by the knife electrode, some adhesions separated in like manner, and a large section, perhaps one half of the tumor, extracted by means of forceps The operation was necessarily prolonged, painful and bloody Through the courtesy of Dr Coleman, the case was now referred to me

Status Præsens - Examination about ten days sub sequent to the operation just described, March 4, The left half of the external nose is decidedly more prominent than the right The left nasal fossa above the line of the inferior turbinated body is completely filled by a firm, elastic, irregularly lobulated neoplasm No middle turbinated body is discernible, its position being occupied by tumor inferior meatus is free, corresponding to the portion The of the growth already removed The anterior twothirds of the septum narium has been pressed far over to the right, narrowing the right fossa and enormously increasing the capacity of the left chamber Rhinoscopic inspection posteriorly shows the naso pharyn to be approximately normal Only a faint The postenor part of the septum is in the median line

First Operation, March 10, 1886 -The affected nostril was first thoroughly cleansed by cotton swab bing and by means of a condensed air spray of Do bell's solution ordinary method of reflected gas rays projected thesia of the entire nostril was induced by hydro- base

ployed Flemming's galvano cautery écraseur, devised by Seiler, which consists of a universal handle into which is inserted a pair of parallel tubes threaded with wire The ends of the wire fall through eyelets, one on each side of the wheel in the axle bar of the windlass, which is inserted into a slot in the handle so located that while holding the handle the loop can be wound in on the windlass by means of the thumb I substituted steel or a tempered iron wire (piano wire No 5) for the platinum usually employed Plat-Severe inum is devoid of resiliency, a property that enables the écraseur loop of steel wire to retain or regain its contour after contact, when one of platinum would remain permanently indented The steel loop offers some resistance to tissues against which it is pressed, thus facilitating envelopment of the part The steel wire is sufficiently tenacious and takes the glow from the battery practically as well as platinum, but a fresh piece must be used at each application Before threading the parallel tubes it is well to withdraw the temper from the ends of the wire by heating them to redness, as the portion thus rendered ductile will wind more easily around the windlass

I would catch in the écraseur the most easily en-Efforts veloped lobule or corner of the growth, then connect the battery by running down the treadle with my foot, and at the same time wind in the loop, thus severing, without pain and with little or no hæmor rhage, a cubic centimetre or more of the growth By a repetition of the process three or four such pieces would be removed in a sitting Occasionally it became necessary to make a preliminary incision into the substance of the tumor with the knife electrode in order to prepare a place for the wire, or by the same means to detach an adhesion that the écraseur might take hold The operations were repeated weekly, the patient using a cleansing spray in the interval They might have been performed more frequently, every day or every alternate day for a time, thus shortening the duration of treatment, but the slower method sufficed and for good reason was preferable in this case

During the course of some weeks the growth was thus followed up to its primary attachments, which extended along the horizontal plate of the ethmoid bone backward to the anterior surface of the body of the sphenoid I regard the posterior portion of the vault, including the anterior perpendicular suroutline of the tumor, located well forward, can be face of the sphenoid bone, as the point of origin of the tumor, the base of which extended thence along the cribnform plate of the ethmoid bone, becoming adherent at the same time to portions of the superior turbinated body and the walls of the ethmoid cells The absence of the middle turbinated body, which The parts were illuminated by the had been reduced to a rudiment by absorption from through the anterior aperture, which was widely di- parts above and not only facilitated operation, but lated by a bivalve speculum Complete local anæs- enabled me with certainty to follow the tumor to its chlorate of cocaine applied in the form of a spray of be included in the snare, I cauterized the base by a 5 per cent solution repeated three or four times at means either of the galvano cautery point, knife, or intervals of three minutes, followed by a 10 per cent | moxa electrode, causing the instrument to penetrate

TABLE OF OPERATIONS FOR NASAL FIBROMATA

	հետ-		ıt hıs•	No re nonths	nion t his-			rell at nos inues irther e end
Result	Death from hemorrhage		No subsequent his- tory given	Recovery No re currence six months later	Immediate u No subsequent	Recovery		Recovery W the end of 17 m Note —Cont well without fu recur nee at th of 24 months
Treatment	Failure of attempt at removal by ligature and evalsion, fol- lowed by an attempt to cut thro the base of the polypus with a bistoury, resulting in death from hæmorrhage	•	th forceps through	Unsuccessful attempt at removal by forceps severe hum orrhage. Finally, crucial incision over the left side of bridge of the nose, and bones liked out Tumor then pulled out by finger	Fibroma Microscopically well Column divided at its base Immediate union defined fibrous tissue here and and turned up septum divided No subsequent histhere clump of round cells close above and below tumor grasped fory to blood vessels, probably in by subselium and twisted from posterior attachment	Fibro-myvoma, with greatly Removed in 50 pieces by cold predominating fibrous structure wire snare in 15 sittings. Pre Also some smaller myvomatous vious attempts by forceps failed growths. No microscopic examination	Exposed and removed by a emedium incision through the bridge of the nosc	Removed piecemeal by gal silvano cautery certseur, assisted silvano cauter electrode, and its base cauterized by same merns Re peated sitings
Pathological Nature	Fibroma. Substance firm and clastic. On section scen to be of purely fibrous structure. No microscopic examination	Тівкоми No містоясоріс сх лміпаціоп	Tibrom On section, hard, Evulsion we dense and pale microscopically, naso phary nx closely interlaced whitish fibres, with a few minute cells	Fibroma	Fibroma Microscopically well defined fibrous tissue here and there clump of round cells closs to blood vessels, probably in flammatory		Fibro sarcoma (microscope) Exposed and randled in this table because medium incision fibrous elements predominated bridge of the nose and because probably it originated as a fibroma	Fibroma Microscopic evam ination Composed entirely of yuregularly arranged bundles of fibres
Point of Attachment	Posterior part of the viult of the left nasal fossa De e monstrated by an autopsy f	Upper turbinated body and enbriform plate of eth moid	Roof of nasal fossa well within the nasal crvity	•	swelling, Septum nasi as to ap ind grow eptum on e, a blow	Superior turbinated body and anterior part of superior g meatus	Posterior part of septum	Horizontal plate of eth igmoid bone and anterior per specifical surface of bod ly of sphenoid bone (roof of natural vault)
Situation and Extent	Left Nostril		Pedunculated solid growth size of pigeon's egg, obstructing and projecting through the left choano into the naso pharyny.	Left nostral enturely occluded "Frog face" appearance, left eye bulged forward after removal size of goose egg.contaming in its centre bones forming septum of nose	A firm reddish elastic swelling, projecting down in front so as to appear outside the ala nass and growing from the cartilaginous septum on each side Exciting cause, a blow on the nose	Multilobular tumor on each side, Super nose flattened and dilated Mass and antes of firm consistence, protruding meatus from each side, having an aspect more fibrous than mucous Quite vascular and resistant	Left nasal fossa, occasioning de formity of nose Pedunculated	Left nassal forsa slight projection Spears from materior aperture commencing moid bone and anterior per ination Figure from materior aperture commencing moid bone and anterior per ination Figure from from from from from from from from
nots and qmy2 lo smot	yrs		2 years p	r year	2 mos		2 years	39 5 3 cars
Previous	13 11/2		35.	S	12	29		ار :
Sex.			Female	Female	Male	An Male Idaes Lar etc,		sy Fem
Operator S	Gerdy Des Pol Male ypes etde leur treat ment, Panrs, 1833, p 19 Mackenzie Diss of Throat and Nose, Vol II, p 375 Am Ed	Lichtenberg Lancet, 1872, Vol II, p. 773 Mackenzie Dis of Throat and Nose, Am Ed, Vol II, p. 375	Morrell Macken Fig. Dis of Throat and Nose, Am Ed., Vol II, p 376	Kempf Louisville Female Med News, 1879, VII, p 65 Wag ner Dis of Nose, 1884, p 207	Buchanan Clas Rev Med Journal, 1882 XVII p 211 Wagner Diseases of Nose, 1884, p, 216	lacquemart nales des Mala de L'Oveille du ynv, du Nez Mai, 1883, p 69	_	Casselberry Sec tuon in Lary ngology Femilic Ninth Int Medical Congress Washing ton D C
No Date	1833	1872	3177	1879	1882	1883	1884	1887

This also I did a small part formation of adhesions each time to the bone at a time, fearing to produce much inflammatory action on account of the proximity to the cerebral meninges through the cribriform plate of the ethmoid I cauterized everything which had any appearance of fibroma, preferring to touch that which was not fibroma rather than to leave untouched that which was At the end of six months the tumor seemed thoroughly eradicated The fossa above the inferior turbinated body was unoccupied by anything uninterrupted

At the end of nine months a recurrent tumor the size of a small bean was discovered attached to the lateral wall, just above the anterior ends of the inferior turbinated body and redeveloped, for on account of the recession of the lateral wall it was at a point difficult of illumination and access, being just within the anterior aperture, but around the corner, as it were This tumor was removed by the same means. At the end of further recurrence, although in view of the known tendency to relapse in such cases she cannot even yet be considered wholly free from liability to redevelopment I am indebted to Dr Elbert Wing, Demonstrator of Pathology in the Chicago Medical College, and Pathologist to Cook County Hospital, for the microscopic examination of sections of the tumor which, confirmed also by my own examination, demonstrated it to be a fibroma

Treatment -Of the seven other cases appended, in No 1 attempts at removal by ligature and forceps failed, and were followed by an attempt to cut through the base of the polypus with a bistoury, which re-In case No 3 the tumor avoiding an external operation projected posteriorly and was removed by forceps introduced through the naso-pharynx In three cases, Nos 4, 5, and 7, external operations were performed to give access to the tumor in No 4 a crucial incision was made over the left side of the nose, and the nasal bones were lifted out, in No 5 the nasal columna and septum were divided and the nose Read before the Medical Society of the District of Columbia, turned up, in No 7 a median incision was made through the bridge of the nose In case No 6, possibly fibro myxoma, the tumor was successfully removed, piecemeal, in fifteen sittings, by a cold wire The advantages of the intra nasal, galvano coutery method, as detailed in my own case, are sufficiently obvious General anæsthesia is unneces sary and the consequent shock and dread of operation are avoided There is no external disfigurement, no dangerous hæmorrhage, and under cocaine, little or no pain My patient would sit in the operating or no pain My patient would sit in the operating On November 4, 1886, Mr W E S was referred chair and have piece after piece removed without to me by Dr Z T Sowers, with the following history manifesting even discomfort It is certainly a more

Moreover, the slower method of removal, piece by piece, offers the advantage of greater deliberation, implying also as it does greater precision, for when sufficient oozing occurs to interfere with the view further action is postponed until the next time By repeated sittings the patient becomes accustomed to manipulation and learns to assist the surgeon by holding correctly The surgeon also in turn by repeated opportunities to study the parts becomes so familiar with the area over which but rudiments of the middle and inferior turbinated he is working that he can readily trace out all the bodies, the view of the vault in all directions being ramifications of the growth. No undue inflammatory reaction follows and sepsis can be avoided by thorough cleansing of the nostril by means of an antiseptic spray

In the case of Mrs R, to whom any facial disfig-Probably a point of sec- urement would have been exceedingly abhorrent, the ondary attachment here had escaped cautenzation galvano cautery used in this manner was the one means which rendered a formidable external operation avoidable The nature of the case would have precluded an effective intra-nasal use of the coldwire snare, ligature, forceps, or chemical caustics

An agent capable of effecting such brilliant results seventeen months there is no appearance of any naturally engenders an enthusiasm which is liable to lead to its abuse and a word of caution is not unnecessary in this respect Accurate diagnosis, precise indications for its use, and a certain amount of skill on the part of the operator are essentials to the judicious employment of the galvano cautery And it must not be supposed that all cases of nasal fibroma will be susceptible of this means of cure size and penetration into accessory cavities may render it ineffective

Electrolysis has been successfully employed by Lincoln in naso pharyngeal fibroma and it might prove serviceable in nasal fibroma of enormous growth, at least to reduce the size to such a point sulted in death from hæmorrhage The treatment in that the galvano-cautery could cope with it, thus

An analytical record of cases is given 70 Monroe Street

A CASE OF LARYNGEAL GROWTH

December 14, 1887

BY C W RICHARDSON, MD, OF WASHINGTON D C

Operations for the removal of laryngeal growth are of such common occurrence and the subject has been so thoroughly treated by laryngologists, that there would seem nothing new or interesting upon this subject to be added The case I am about to report, while not individual, is one of uncommon nature and presents certain points of interest

brilliant operation, when possible, to encircle the of any character previous to the development of the entire tumor and remove it in toto at one sitting, but present affection. His family history is excellent, in case of the larger fibromata this will usually be no hereditary tendencies being found upon either impracticable on account of the impaction of the paternal or maternal side. When about the age of mass into the inequalities of the nasal fossa, and the it he began to sing as chorister boy, filling a soprano

part, in the church at his native home, near Sheffield, dition Pharynx congested, and presenting here and and continued to serve in that capacity until his 16th there small shreds of adherent mucus Naso pharynx year, when he was obliged to desist on account of the period of mutation having set in try to show the influence of this singing upon the mirror, and the patient having been told to intone a, his voice had rounded into a deep bass, marred, however, with a very slight touch of hoarseness. Two a fact readily explained by the large clumps of mucus years later this hoarseness had increased to such a interposed between and firmly adherent to their free degree that he was obliged to give up singing change in his voice became greater and a new symptom developed, which the patient described as a "catch in the voice" About this time our patient came to America

Shortly after his arrival in America he noticed that he breathed with greater difficulty, especially at night, which continued to increase until the removal of the growth Dysphagia was present to a slight extent

Present Condition - The first point that attracted my attention was the character of his voice, and his apparent difficulty of breathing This voice was not one of marked hoarseness, as is usually found in cases of laryngeal growth, but rather resembling the hoarseness of laryngeal blennorrhea, produced by | ing him to rest a few moments, I requested him to three factors, viz the excessive amount of mucus make a deep inspiration, to be followed by a forced which adheres to the chords not only preventing their expiration, at the end of which he was to intonate a, apposition but also producing secondary tones, paresis, and infiltration into and thickening of the substance of the chords conversing with this slight hoarseness there was a sudden arrest of the voice, while the lips moved and the patient made violent attempts to speak—resembling very much the efforts seen in a stutterer—the words remaining unpronounced After a few ineffectual efforts, a toss of the head, followed by a deep inspiration—attended with a decided stridor—he re-He continued to converse in this gained his voice slightly hoarse voice until again interrupted by another complete cessation of the voice These attacks, if I may so call them, were at times—when the patient persisted in his efforts to speak-accompanied by marked dyspnœa Dyspnœa was another symptom from which the patient has suffered considerably, and it was this one alarming symptom which caused him to seek medical advice He had no special hunger for air while in repose, or taking moderate exercise, but should he exert himself, as in walking fast, ascending heights and steps, or bicycling, the want of air became very pronounced

Dyspnœa was very marked at night, and not infrequently attended with severe asthmatic seizures The patient states, "For the last six months I have not had a pleasant night's rest I am constantly aroused from my sleep by feelings of suffocation and when asleep toss from one side of the bed to the other" These asthmatic paroxysms occurred almost always while the patient was on his back, and very right vocal cord within a line of the anterior commisfrequently while his face was covered with the sheet sure -a habit of which he was guilty while asleep

Objective Examination - The tongue was normal, as well as the mucous membranes lining the surface of the buccal cavity Tonsils, uvula and palatine arches presented no deviation from the normal con-

quite roomy and showing slight glandular hyper-Later I shall trophy On the first introduction of the laryngeal At about his 20th year, there was apparently nothing foreign discernible The cords showed only a slight want of opposition, The whole of the larynx, epiglottis, aryedges epiglottidean folds, false cords and arytenoids, pre sented quite a marked appearance of congestion The vocal cords themselves were infiltrated, of a dirty, pinkish-yellow color, passing into a bright red at their free edges-covered here and there with small masses of adherent mucus I told the patient to clear his voice, and introduced the mirror a second time-with no better result than before caused the patient to make a deep inspiration, in order to get a good view of the sub cordal portion of the laryny, but could discover nothing, except that this portion of the larynx was excessively con

The patient, being now quite restless, after allowsharply Just before he finished his expiration, I quickly introduced my mirror and beheld the follow While the patient was ing a large, bright red body about the size of a cherry was imprisoned between the vocal cords, extending from the anterior commissure to the processus vocales, posteriorly and overlapping to some extent the vocal This growth presented two lateral and one cords inferior lobe, the latter being imprisoned between the cords, the former spreading over the cords on each side, thus acting like a valve, and explaining the pronounced dyspnæa which occurred during the aphonic stages It can be readily seen how, the patient persisting in his efforts to phonate- the cords contracting upon the inferior lobe, the lateral lobes spreading out over the surface of the cords-the growth interfered with respiration until the desire for air became so great as to cause him to relat his efforts, the growth being drawn into the sub corded portion of the larynx in the manner already The patient being asked to inspire, described which he accomplished after several efforts, the cords separated and the growth passed into the sub cordal portion of the larynx It is well to observe here that the cords, even during a deep inspiration, did not ev pand fully-the right cord, to which the growth was attached, never passing beyond the cadaveric posi tion, the left cord making only a slightly greater excursion than its fellow After several more examin ations, I came to the conclusion that the tumor was attached to the under surface and inner edge of the After putting my patient through a thorough course of training, which the use of that valued agent, cocaine, does not render unnecessary, of four days' duration, and being satisfied that he would follow all directions, I decided to operate on the fifth day

On Monday, November 8, in the presence of Dr

Sowers, after thoroughly applying a 20 percent solu-parting this information to our patient—a little tion of cocaine to the larynx, I removed the growth with Schræther's modification of Turck's pincette On the first attempt at introduction of the instrument, and as I was passing back of the epiglottis, he made an effort at deglutition which compelled me to remove the instrument and the mirror In a few moments I quieted him and again introduced my instrument, passing it well downward and forward to the anterior commissure to the point of attachment, and after firmly grasping the growth, evulsed it Again examining the larynx, to see if all the growth had been evulsed, I found it so filled with blood as to obscure entirely the supposed site of attach-On examining the patient the following day, I observed a small portion of the pedicle, about the size of a mustard seed, projecting from beneath the free edge of the right vocal cord This was removed without difficulty and brought with it a small portion of mucous membrane My patient had now nearly a clear voice For several weeks thereafter, I made local applications of nitrate of silver for the purpose of relieving the co existing laryngitis After this course of treatment, I discharged my patient, com pletely relieved, with every function of the larynx normal, and he so remains at the present writing am sorry that I did not have a careful microscopical examination of the growth made-which I would have done had I intended reporting the case From macroscopical appearances it bore all the characteristics of a fibroma

There are several points of interest in this case, the most important of which, and the one to which I first call your attention, is that these forms of growth, especially when quite small, frequently lead to errors in diagnosis, even if one be an adept in laryngeal examinations That they are not mere fancies, but that errors do occur may be illustrated by my own experience as well as that of others who have had vast experience in laryngological work By citing a hypothetical case, which will not be overdrawn, I may better illustrate this point

A patient comes with a history of slight hoarseness of some years duration, possibly slight dyspnœa, his patience exhausted by a long course of ineffectual treatment by the general practitioner, and, I might add, in a doubting frame of mind The patient undergoes his first laryngeal examination which on account of his nervous condition is attended with a little difficulty A hasty view is obtained and the laryn is seen to be in a state of chronic inflammation, the vocal cords are infiltrated, presenting here and there little shreds of mucus running from one cord to the other, possibly showing a little insuf The sub cordal portion is seen to be in a much congested condition, and the growth on account of its small size and situation, being of the same bright red color as the sub cordal mucous membrane, and lying well hidden beneath the anterior commis-

guardedly, probably—and with the advice to call on the morrow, dismiss him The same information he has probably received before, hence he leaves never to return A few days later a neighboring specialist narrates to you an interesting case of laryngeal growth, and in it you recognize your case of a few days ago Chagrin and vexation would not have been yours, had you been a little more careful and thorough in your examination As I have previously stated, such cases are not fanciful, for I have seen three such mistakes committed, and in one of the cases was the error committed by quite a distinguished laryngologist Prof Schroether once made the remark while speaking of a case of this nature, that no laryngologist should allow such a patient, one presenting the symptoms enumerated above, to leave his consultation room with a diagnosis of chronic laryngitis only, without adopting all manœuvres necessary to explain such a condition, of which the forced expiration after a deep inspiration, with the rapidly following intonation of a, is important in proving the existence or non existence of a growth attached to the under surface of the cords Even in the present case, the growth being quite large, at the second examination after the greatest care and effort I could not bring the growth to view and almost doubted my having seen it on the pre-

On the fourth day—the patient now submitting freely to laryngeal examination-one of my professional friends who is quite an adept in the use of the laryngeal mirror, called, and, after I explained to him the nature of the growth, he proceeded to examine the patient After introducing his mirror several times I could see by the expression of his face that he was beginning to doubt my diagnosis I subsequently proved to him the existence of the growth, with evident satisfaction, as the incredulous expression gradually gave way to one of credulity useless for one to assert that he would not make sich an error, for even with these facts fresh in his memory, he may on the morrow be guilty of committing such an error It is only by constantly calling attention to the possible errors in diagnosis that we are able to avoid them

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ETIOLOGY OF TYPHOID FEVER, AS OBSERVED IN COUNTRY PRACTICE

Read in the Section on Practical Medicine, Materia Medica, and Therapeutics, at the Thirty Eighth Annual Meeting of the American Medical Association, June, 1887

BY L N DAVIS, M D, OF FARMLAND IND

Philosophically it would not seem true that the forces of nature which shaped the human body and sure and the cord to which it is attached, fails of de- with a formidable foe to mankind. Such an admistions which could give rise to such symptoms, we not a reproach to the laws of nature But the "germ eliminate all except chronic laryngitis, with slight theory" of the origin of many diseases, at present, is paresis, the evidences of which are present, and im- dominant, and it would seem poor policy for a medical men to oppose the specificity of typhoid poison It would be equivalent to inviting the contumely and | nated in recovery in 21 days

discredit of his profession

Not many years since the only requisite of science to establish the cause of an outbreak of typhoid fever, consisted in developing a defective sewer pipe, an illy kept cellar, or impure water supply The specific element was by no means always a consideration in the elaboration of the poison With so light a task pefore him, the attending physician seldom traversed much territory, literally or mentally, before the hot bed of disease was discovered If in the country, a hogwallow or a pile of rotten potatoes would answer, in the absence of the above essentials He must now, however, account in some manner for the presence of an organized poison or germ in the production of The ingenuity of the country doctor typhoid fever is often sorely tried in such an inquiry, but his credulity many times leads him to the desired results The wonderful and unique properties attributed to the disease germ makes almost any theory of its de- the neighbor women by night and the husband dur velopment or transportation probable, and allows ing the day Seven or eight persons were thus en credulity a wide range of application, but doubtless gaged, by turns, during the whole course of the case often, a priori, the views adopted are incorrect

For the last 8 years typhoid fever has occupied the place formerly held by malarial fevers in our section (Randolph Co) This change has been noted in the time she commenced to wait upon Mrs Ford, many other instances, by great authorities, why it occurs they do not attempt to tell Drainage has been steadily advancing in the district for the past 30 years, but does not yet approach perfection Typhoid fever has prevailed sporadically, with no large number of cases in any given locality, and during the time specified I have known of almost every case within an area of ten miles square To exemplify the impossibility of finding, in the country, the positive source of and medium through which the virus of typhoid fever enters the body of the patient, and as bearing facts upon the period of incubation, contagiousness and predisposing causes of the fever, I will give a brief history of the following outbreak

On the 26th of September, 1886, I saw Miss Ida Ford, æt 24 years, junior member of a family of four Miss Ford was born persons, including a farm hand and raised on the farm and in the house she now ocstay over night for more than three months, nor has of 20 years, had been employed in the Ford family the family visited or entertained visitors within that about four weeks during the sickness of the latter twenty feet in depth that has served them continu- mother The well is situated from the sick-room ously for a period of 25 years on a slight eminence, so that the surface water inclines away from it in every direction, neither is it probable that there is any infiltration from the distant barnyard or meadows

There has been no sickness in the Ford family for 10 years of any character, and never was a case of typhoid fever on the place since it has been settled To my certain knowledge there has not been a case of typhoid fever nearer the residence by the whites than two and one-half miles for 15 years

even at this distance for more than 2 years

The case was pronounced one of typhoid fever

nervousness, but no diarrhœa at any time, and termi-

The dejections from the bowels were of a solid character throughout the disease, were always disin fected with nitric acid, carried a distance from the The clothes of the house and buried in the earth patient and the bed linen were changed every other Visitors had been rigidly excluded from the sick room during the continuance of the case Her mother was her sole nurse, and she was scarcely absent from the bedside of the patient 20 minutes at one time during her sickness, many times, indeed, she occupied the bed with her daughter over night

About 28 days after the attack of Miss Ford, her Mrs Ford was 54 mother took the disease also years of age and of delicate build, she had two severe hæmmorrhages from the bowels at the end of the second week, was sick one month and three days, when she died

The nursing in this case was entrusted largely to Of this number Mrs Bales, who lived about a mile distant, bore about an equal part of the burden

On the 12th of December, or 28 to 35 days from Of the seven or eight nurses Mrs Bales fell sick above referred to, Mrs Bales was much the most feeble of constitution It has never been my fortune to wait upon a worse case of typhoid fever than fol She had two hæmorrhages from the bowels, and passed much of the winter in a semi conscious

condition, but finally recovered

The Bales family consists of eight members, but a farm hand and an assistant in the kitchen were em The Bales' residence is ployed during the sickness a commodious two-story frame house which has only been built 3 years The site is elevated and has never before been occupied by a building. The well was dug and the outbuildings constructed when the house was built Prior to the sickness of Mrs Bales there has been but one case in the family demanding the attention of a doctor since the house has been occupied—a case of summer diarrhœa in an infant of The eldest daughter, who is a rugged girl The family uses water from a well about Later she became the principal attendant upon her I need scarcely add that the fecal discharges were cared for as in former cases, and the bed linen changed every forty eight hours The sleeping apartments of the children were upstairs, while the sick-room was on the first floor

Notwithstanding the precautionary measures, pre cisely twenty four days after the mother took sick the five children, æt from 8 to 18 years, began to mar The subsequent three ifest symptoms of the disease weeks gave full development to all the phases of typi cal and grave typhoid fever in each of the five cases
All recovered The oldest daughter, who had shared the danger, whatever it might be, in both families, es It was attended with a high temperature and much caped, also Mr Bales and both hired assistants

In the Ford family the husband, hired hand, two or three Litchen girls and all of the nurses but Mrs Bales escaped, thus giving indubitable proof, which requires no argument, that the water could not have been the source of the poison

Excluding the drinking-water, which is the vehicle of such baleful influence in so many well authenticated epidemics of typhoid fever, to what source must we look for the cause of our first case? Water is thought to be the channel through which the poison is conveyed to the patient, masmuch as 95 per cent of all the cases are thought to be thus caused

The atmosphere is the only other means that is recognized as capable of conveying the poison, and it is potent only at a very short distance If atmospheric infection be offered as a solution of the mys tery, we meet with the same difficulty as with the water we cannot account for the introduction of the poison, nor why so many who breathed the same air escaped the disease

Therefore we are compelled, in this instance—as in many others—to ascribe to it autochthonous ori-The constitutional prochvity of our first case invited the attack, it was the only case originating from the first cause

Mrs Ford contracted the disease, directly or indi rectly, from her daughter, she was the only close attendant and the only other member of the family who became infected virus, it seems to have been limited to the immediate vicinity of the patient's body, and to have been capable in twenty-eight days of producing an effect on the constitution of a previously healthy person. Mrs. Bales imbibed the poison in the Ford family In twenty-eight days from the time carried it home it made an impression on her system, it was capable of striking down five of her children The sittingroom occupied by the children communicated with the sickroom of their mother, and they received the poison through an infected atmosphere The eldest children—who went through the entire sickness in both families escaped, Mr Bales and two hired assistants, besides visitors and transient help, escaped At the Ford residence all save Mrs Bales, who was of very feeble constitution, escaped, showing quite conclusively that the drinking-water, as before ob served, of neither of the families contained the poison, otherwise the infection would have been more gen-The conclusion which follows, therefore, is that the real nature of the materies morbi of typhoid fever is but little known, that if it is not autogenetic, its origin many times is involved in impenetrable obscurity, that the organism or chemical product is as likely to assume an active form in the healthy surroundings of an isolated farmhouse as amid the filth of a badly neglected village or city, that constitutional prochvity, feeble health, or bodily fatigue has much to do in determining an attack It is more than probable, also, that the poison may remain latent in the system until evoked by physical exhaustion, despondency, or other conditions of vital depression. Twenty four to twenty-eight days constitute sufficient time for the poison to escape from the E5e Strain '(New York Medical Journal Jan 7 1888)

body of the sick, ripen if imperfect, and produce a toric effect on the system of a previously healthy The poison which perpetuates the disease is not contained in the stools alone, but may emanate directly or indirectly from the body of one sick with typhoid fever Water is certainly not the medium which conveys the poison, even in a small majority of the cases, in the country But we cheerfully admit that the country doctor is not trained in the kind of knowledge which makes his observation of May we not the etiology of disease highly valuable also question the propriety of the present trend of the highly learned in the profession, in practically accepting as facts very much that is not susceptible of demonstration, relative to the causation of disease?

GRADUATED TENOTOMY IN THE TREATMENT OF INSUFFICIENCIES OF THE OCULAR MUSCLES (STEVENS' OPERATION)

Read before the Philadelphia County Medical Society, March 14, 1888

BY CHARLES HERMON THOMAS, M D, OF PHILADELPHIA

The study of disorders of the ocular muscles in Whatever the nature of the relation to functional nervous diseases has received a strong forward impetus during the past year, chiefly due to the published results of the labors in this direction of George T Stevens, of New York, whose work on "Functional Nervous Diseases, recently published,1 has challenged special attention, even where it has not met with entire approval

The subject occupies a standpoint on the line between the two important specialties of ophthalmology and neurology, it takes somewhat from both, and has already, by force of circumstances, become in a certain sense a specialty by itself The operation daughter in the Bales family—the most rugged of the and its application have, until recently, remained to a remarkable degree personal in the hands of Dr Stevens, notwithstanding that for many years he has reported it before medical societies and in the medical journals. All this, however, has been recently changed by the publication, within the last year, of his work above referred to, which has brought the method into such prominent notice as to compel recognition

Other operators have now entered the field, among whom is Prof A L Ranney, of New York City, who, as a neurological specialist, has reported's a series of cases of the gravest neuroses successfully treated by the Stevens' method Beyond question a point has now been reached which shows the subject to be worthy of the most sincere investigation

What I have to present to night is, to a certain extent, in the nature of a preliminary report, as my

work is necessarily incomplete in some particulars, owing chiefly to the considerable length of time required for observation to arrive at a just estimate of the permanency of the results obtained-especially in the gravest and, therefore, most important cases I shall attempt to add little that is new to the presentation of the case as made by Dr Stevens himself, and I cannot hope, in the length of time allotted for its consideration, to make a statement commensurate with its importance, but I have thought it right to rehearse briefly its principal features and to give my own experience in connection therewith, together with a sketch of a few of my own cases, because I have become convinced of the importance of the subject, and also because it has not, heretofore, been brought before this Society-nor, so far as I can learn, before any other of the medical societies of Philadelphia

It is now about ten years ago that the operation was first brought to my notice by patients who had ful stimulus which the need of binocular vision pre been under Dr Stevens's care incredible that results such as they claimed were in the normal state be directed to a distant object, produced in their cases could have been derived binocular vision will occur without the need of from the cause assigned practicability of performing the operation in the properly bear upon the object definitely graduated manner which was said to be Under these circumstances, and in the absence of better information, my position was for a long time one of earnest opposition to the About three years ago, howpractice in question ever, having under my care several cases of muscular asthenopia which I was unable to relieve, though I obtained the advice of several of the best known ophthalmologists, and being freshly reminded of the work of Dr Stevens by a patient of unusual intelligence and reliability, who reported great relief obtained at his hands, I asked his assistance in the He kindly demonstrated treatment of these cases to me, upon patients of his own, the practicability of the operation, and I became convinced of its The results obtained were so satisfactory that since that time I have investigated the great value muscular as thoroughly as the refractive conditions in all cases coming under my care, and have as faithfully undertaken to correct them

For the discovery of abnormality in any of the straight muscles, their physiological condition, both while at rest and in action, and in all states of the acommodation of the eye must be thoroughly under In order that binocular vision may result, the visual lines of both eyes must converge upon the same point, whatever may be the position and It is only under such cirdistance of the object cumstances that the rays of light are brought to a focus at corresponding points upon both retinæ A slight deviation results in diplopia, constituting strabismus, a subject sufficiently well understood, and to which Stevens's researches do not directly But while there may be perfect binocular vision, and not the slightest indication of strabismus, there may be, nevertheless, grave faults affecting the It is these faults that Dr Stevens has emphasized, and to these his observations have been chiefly confined

In the normal condition of the ocular muscles the visual lines of both eyes naturally preserve an almost exactly parallel direction when looking at distant objects, and they maintain such a position of their own accord from muscular tonicity alone, without the necessity of any additional stimulus This can be shown by prismatic tests diplopia produced in making the test will be such that the two images will lie in that plane which is at right angles to the base of the prism 1 If, for ex ample, diplopia be induced by a prism placed before either eye with its base directed either outward or inward, the two images will lie in the same horizontal plane, and similarly, vertical prisms, with base up or down, will induce diplopia, but in this case the two images will be situated in the same vertical The reason for this is because the normal visual lines of both eyes naturally lie in the same hor izontal and vertical planes, even when the power-Hence, if the eyes It seemed to me sents is abolished by the prism Again, I questioned the extra muscular action to bring the visual lines to If, on the other hand, the visual lines of the two eyes do not natur ally take the proper position, one of two things will result, either there will be no effort to bring them into correspondence, and strabismus with attending diplopia occurs, or, more frequently, by an extra nervo muscular effort, called into action by the de mand for binocular vision, the proper position will be maintained, just as in facultative hypermetropia accommodation is necessary, even when parallel rays coming from a distant object are to be brought From this forced, to a focus upon the retina though it may be involuntary or even unconscious effort to maintain the proper direction of the visual lines, the abnormal conditions under consideration We have abundant clinical evidence of the enormous expenditure of nerve force under these result circumstances, and of the development of marked reflex disturbances, which are manifested both in symptoms of irritation and of exhaustion

Dr Stevens has introduced a series of terms de scriptive of the various abnormalities to which the recti muscles are subject The word exophoria desig nates simply an outward tendency of the visual lines, without implying anything as to which muscle or set The opposite condition, of muscles is at fault namely, tendency to convergence, is designated by the word esophoria, meaning an inward tending either visual line deviates above its fellow, the fact is expressed by the term hyperphonia, right or left as the case may be, always remembering that the lower image represents the higher tending visual It is to be remarked that the condition of hyperphoria is far more frequently productive of

⁴ Not that Dr Stevens was by any means the first to employ priority for the discovery of muscular irregularities, but he appears to have used them with greater precision and by more systematic methods than the heretofore prevailed have heretofore prevailed have heretofore prevailed 15"A System of Terms relating to the Conditions of the Ocular Muscles known as 'Insufficiencies', by George T Stevens, I D Ph D, (New York Medical Journal, Dec 4, 1886)

serious reflex disturbances than any other fault, and mainly for the reason that a small amount of deficiency in this direction may, and usually does, in volve a considerable proportion of the total co ordinating power of the vertical muscles, and this because the power of surcumduction is usually limited to about three degrees, while that of abduc- more serious results besides tion is about eight edgrees, and that of adduction quote The generic may be fifty degrees and upward term to express any deviation whatever from ortho phoria, the normal, is heterophoria Finally, the amount of heterophoria found in any given case is prism required to correct the fault

In practice, the tests for insufficiency are made by placing prisms before the eyes with their bases in certain definite directions Lateral diplopia is pro a prism either up or down If in lateral diplopia so induced, either image is above the plane of its feleye whose visual line is lowest, to be expressed as to visual troubles" hyperphoria of the opposite eye If, in induced diplopia be homonymous, exophoria if crossed

In applying the prism test for the discovery of says muscular anomalies it is not sufficient to be content sometimes have apparent myopia through spasm of they are, in fact, reflex phenomena use of temporary correcting prisms for whatever relief to the tension of a superior or inferior rectus" fault may be manifested, and following it up-but not leading it—as it develops, by a new correcting results from simple conditions justified in proceeding to operation erate dose of morphia administered hypodermically under morphia to be expressive of the true condition be completely remedied of the drug as a matter of ordinary practice discovery of an efficient and safe agent for the rebe desired

error first not infrequently the muscular difficulty might be removed" soon disappears, showing the muscular to have been dependent upon the refractive state tion of refractive errors, especially those of a hyper treatment directed to ocular difficulties, the affection metropic character should always be made before applying the prismatic tests

Defects of refraction and accommodation are well known as the source of serious reflexes, especially headaches or severe migraine, nausea and dizatness, but it is not so well known that defects of muscular adjustment through faults of the guiding muscles of the eye produce all these and many From Dr Stevens I

"Respecting the importance to be attributed to ocular, refractive, and muscular anomalies, I fear that my views will for some time to come continue to be regarded as something more than radical, but equivalent to and expressed by the degree of the I am ready to reaffirm the proposition made years ago, that, among the various elements constituting the neuropathic tendency, these anomalies must be regarded as occupying a preeminent position

"Summing up the experience in this field of work, duced by a prism with base in, vertical diplopia by it is shown that, not in occasional and rare instances only, but in a large proportion of cases of the most redoubtable neuroses, unusual and most salutary relow, we know that the higher image belongs to the sults may be anticipated from attention directed

Among the neuroses shown in many cares to be vertical diplopia, either image deviates from the dependent upon such troubles, are to be mentioned vertical, we have lateral fault-esophoria if the neuralgia, spinal irritation and neurasthenia, choica, epilepsy, and mental disorders Dr Stevens further

"Not only are those painful or irregular condiwith the results of a single or even several examina- tions usually described as neuroses in great proportions, because we must always bear in mind the tion responsive to the relief from ocular tensions, possibility of latency-that is to say, like latent but a great variety of conditions commonly rehyperopia, the true fault may be concealed or garded as local affections yield as readily, and Indeed, as in latent hypermetropia we prove that with some possible local complications As an instance the muscle of accommodation, so in actual esophoria of this class of trouble, I may mention the fact that an apparent exophoria may be manifest, the result in more than a score of cases of extreme dysmenorof spasm of the externi, and this is equally true of rhoea—in each of which the periodical suffering has the other muscles It is only by a careful considera- been of intense character, of regular occurrence, tion of all the circumstances, such as the degrees of and of the full duration of the menstrual life of the abductive and adductive power, and, finally, by the patient—the dysmenorrhoea has failed to occur after

So far as my experience goes, epilepsy very rarely The ocular anprism until the fault becomes stationary, that we are omalies in epilepsy are of the most complicated, In one obsti- and often of the most obscure character A simple nate case of exophoria I have several times ob- insufficiency may induce headache or other minor tained relaxation of spasm of the interni by a mod- manifestations, but the ocular causes of epilepsy are usually of a character most perplexing to the sur-But, though the after-results proved the observation | geon, and sometimes of a character which cannot Hence, great patience, in this case, there are obvious objections to the use and, in certain cases, much time and skill are required to accomplish that which can finally be done

If, in the meantime, the patient and his friends laxation of spasm of the recti muscles is greatly to are constantly assured by both lay and professional advisers that his efforts must, of necessity, prove It sometimes happens that muscular anomalies of fruitless, he is apt to withdraw from treatment, even considerable degree are discovered in connection while defects which are of great importance, are with refractive faults. By correcting the refractive known to exist, and which, by continued efforts,

Professor Ranney is authority for the statement The correc- that in cases of epilepsy of long duration under

⁶ See 'Ocular Irritations and Nervous Disorders by Dr George F Stevens (N) Medical Journal April 16 1687)

has been scarcely less tractable than diseases com- the elasticity of their edges is an influential factor in monly regarded as easily curable

As furnishing a suggestion as to the possible method of production of epileptic attacks from eyestrain, it is interesting to note some experiments performed several years ago by Drs Dercum, Parker, and others in the artificial induction of convulsive seizures produce spasms in many persons by the following method 11

"The subject being scated, the tips of the fingers of one or both hands were so placed upon the surface of a table as to give merely a delicate sense of contact—ie, the fingers were not allowed to rest upon the table, but were maintained, by a constant muscular effort, barely in contact with it other position involving a like effort of constant muscular adjustment was found to be equally effici-Any one object in the room was now selected, and the mind fixed upon it, or some subject of thought was taken up and unswervingly followed

"After the lapse of a variable period of time, extending from a few minutes to an hour, and depending upon individual peculiarities to be noted, the subject was frequently thrown violently to the

ground in a general convulsion, preceded by tremors

which rapidly became more violent

"Seizures equalling in violence a general convulsion were by no means induced in all subjects, and were generally the result of experiments repeated many times during the same evening In the experimentors the convulsions became so easily induced that it was thought advisable to desist for a long period"

The effort of constant muscular adjustment here spoken of appears not unlike the condition found in the eyes in cases of insufficiency of the ocular muscles, and it seems not unreasonable to infer that if such strain of the muscles of the forearm would produce results of the kind reported by the authors just named, that the strain upon ill-balanced ocular mus cles (which must be continuous during the whole of the time that the eyes are opened) should be productive of even more serious, and, indeed, permanent

results In the majority of these cases there is but one satisfactory method of treatment, and that is graduated The operation consists in making a small opening through the conjunctiva, exactly over the insertion of the tendon, when the tendon is seized by extremely fine forceps and divided outwardly in each direction, preserving the extreme outer fibres, or at least the reflection of the capsule of Tenon, which serves as an auxiliary attachment mies for strabismus and so-called partial tenotomies have, of course, long been made, but there are radical differences between these and the operation here

The fan-shaped expansion of the tendons of the described recti at their points of insertion into the sclerotic are somewhat wider than is generally supposed, while

⁷See "Artificial Induction of Convulsive Seizures," by Drs F \ Dercum and A J Parker, (Journal of Mental and Nervous Diseases, October, 1884)

determining a favorable result in the purpose of the operation—that is, in bringing about a relaxation which shall be permanent by permitting the divided portion to retract and form a new attachment to the globe further back

The use of prisms as a means of treatment of They found that it was possible to marked heteropheria is not to be relied on, as in many cases they are found to be insufficient and disappointing 6 They have, however, a certain value as means of systematic exercise of the ocular muscles,

particularly in the milder cases

When the correction is made by tenotomy, all that is necessary to be done in a given case should be regarded, in a sense, as one operation, though it may be in several stages and at different periods-as a watchmaker counts the regulating of the watch one operation, though he may be obliged to move the regulator a number of times, or as the correction of an astigmatism is one operation, though it may in volve a number of sittings

In one complicated case I have operated as many as seven times, the first operation nearly two years, and the last a week ago, the net result being an un questionable gain both in head symptoms, which were at one time alarming, and in the severe asthenopia to which the patient had long been subject to the operation she had suffered from severe pain in the region of the eyes and in the back of the head, accompanied by general nervous distress of an en An eminent ophthalmol tirely disabling character ogist declared her to have organic disease at the base of the brain from the appearance of the eye ground To day this lady This was about three years ago assured me that she felt "wonderfully better," and expressed her entire satisfaction with the treatment she had received

It is to be reemphasized in this connection, as an additional caution, that no operation is ever to be undertaken unless the indications for it are positively From a perfectly plain case, evident to the merest tyro, to one demanding the greatest skill and patience of the most experienced, there is every Nothing would tend more to bring dis credit upon the procedure than premature opera tions, which might result in such disturbance of the ocular muscles as seriously to cripple binocular vision without in the least alleviating the reflex condition

for which the operation was undertaken

Mrs G H C, referred to me by Dr W H H Githens, æt 32, married, mother of four children, has suffered for many years from almost constant severe headache combined with a feeling of drowsiness, the seat of the pain being the brow and vertex balls painful, always felt better when the eyes were There is frequently double vision, but no General condition markedly closed manifest strabismus Although there was no error of refraction except a very slight amount of hyperopia,

accomplished neurologist—who habitually wears speciacles for the correction of refractive errors and who also suffers from murcular faultier acconversation with mesaid with emphasis. "It is to find they not like they may be a conversation with mesaid with emphasis and know they not like they may be a conversation with mesaid with emphasis and know they not like they may be a conversation with mesaid with emphasis and know they not like they may be a conversation with mesaid with emphasis."

shown only under full mydriasis, the patient was unable to use her eves at any near work, such as readnegative

Muscular tests esophoria of o°, which, under the use of partially settled fault of 20° of esophoria and 28° esophoria

in accommodation

Tenotomy of the left internus relieved all the mus cular fault except 10, which I have allowed to remain The relief of all symptoms was immediate and com-The headache, the pain in the eyes, the intolerance of light, the drowsiness and double vision have all vanished She is now able (without the aid of glasses) to read and sew as well as anyone, and threading a needle, which previous to the operation was almost an impossibility for her, is now done with The general health and spirits have improved to a remarkable extent Perhaps no change in her condition is more marked than of her tone of voice, which from being high-pitched, nervous, almost wailing in character, has been moderated, mellowed, and vastly improved

As additional illustration of what may be accomplished, I may mention the following case of Dr

J H W, thoroughly healthy boy, without any nervous symptoms whatever, has been under my oversight since infancy Except for a chronic tarsal ophthalmia there was nothing to call attention to the Very slight hypermetropia, for which I had prescribed glasses several years ago On examination three months ago there were 11° of esophoria manifest, for which an operation was performed, removing 7° of the fault Two weeks later 4° additional were manifested, a week later the total manifest esophoria was 9°, when a second operation was performed, which resulted in the removal of 8° of the 9 then existing A recent examination shows a manifest esophoria of 3°, being a let out of 2° since the last operation

From the first operation a marked change took place in his facial expression, his eyes, which had previously been almost closed, opened widely, the to keep the eyes from closing, which he had not noticed as dependent upon any condition of his eyes

until after it had been reheved

of demonstrating the amount of set-back given to the tendon, which, though invisible under ordinary circumstances, may be readily seer, upon causing each eye, about 2 millimetres wide in one and a little less in the other where the sclerotic is plainly visible through the conjunctiva

disposition is more frequently due to eye strain than intestines were not opened

strain from muscular fault is the cause of grave and varied reflex neuroses, and that in these cases careing, sewing, etc., and at all times suffers from extreme fully graduated tenotomy promises relief, besides, intolerance of light Ophthalmoscopic examination there is in such cases often sufficient justification for the sake of the eyes and sight-apart from the ner-The first examination showed an vous condition—for the correction of the fault

My own experience covers many of these operacorrecting prisms worn for ten days, developed into tions, performed for the relief of a variety of conditions and, notwithstanding serious difficulties at times encountered, I have a steadily increasing confidence in the legitimacy and value of the method

SENILE HYDROCEPHALUS

Read before the District of Columbia Medical Society, December 7, 1887

> BY D S LAMB, M D, OF WASHINGTON D C

I show this specimen to illustrate the atrophy of the brain that sometimes takes place in old age, as well as the compensatory dilatation of the ventricles that takes place at the same time, made necessary by the fact that the brain is in a hard case woman was old, said to be 82 years, and had been somewhat demented for an indefinite time, explained doubtless by the progressive atrophy November 24 she was seized with left hemiplegia and died six days afterwards, the 30th The post mortem exammation illustrated well the abundance of pathological material which is sometimes found in an old person The brain was atrophied and its ventricles dilated, the ventricular fluid, as well as the subdural and subarachnoidal, was increased in quantity, but transparent and clear as water There was some congestion of the dura mater The arteries were markedly atheromatous, and there were clots in several of them The spinal cord, as low down as it could be examined from the brain cavity, was atrophied roid cartilage was brittle, with chalky deposit, and broke with ordinary handling There was a muco purulent accumulation in the pharynx and larynx-The lungs showed small chalky and pigmented nodules in upper lobes, probably from the cure of incipient tuberculosis The lower lobe of the right tarsal ophthalmia showed prompt improvement, and lung showed sufficient recent pleurisy and pneumohe expressed himself free from a constant struggle nia to prove in a weak person a sufficient cause of death

The heart and pericardium were everywhere closely attached to each other by old adhesions I present the patient this evening for the purpose substance of the heart itself was fatty, the aortic and mitral valves, as well as the aorta, were atheromatous There were old adhesions of the liver to the diaeither eye to be rolled outward, as a vertical line in the gall bladder was as much distended with bile as I ever saw it, projecting several inches forwards from the anterior border of the liver, apparently she had Whether the claim made that the neuropathic pre- accumulated The spleen was much atrophied, the to other conditions is fully justified by the facts or showed contraction and small cysts, as well as some not, it is unnecessary at present to determine, seeing adhesion of capsule, suggesting chronic nephritis that enough is known to make it certain that eyedus and projecting into the cavity a polypus the size and shape of an almond, the uterine mucous membrane was covered with dark blood, so that we might say that the polypus was still active were atrophied, the Fallopian tubes dilated

MEDICAL PROGRESS.

STATISTICS OF SURGICAL TUBERCULOSIS —SCHMALtuss bearing in mind Volkmann's remark that tuberculosis in children and adults varies in regard to its curability and danger to life with the localization of the tuberculous foci in the different organs, regions of and 1 9 of cases of bone-tuberculosis, 37 per cent the body and tissues, has collated the operations for the past 10 years in Maas's clinic in Wurzburg The per cent, died 5 per cent Amputation in one case list does not include the polyclinic cases

are taken Maas treated 1287 cases of tuberculosis, or 145 per cent of the whole number of patients, per cent 748 were males and 539 females, 58 had multiple

tuberculosis

I Tuber culosis of Bones and Joints -978 cases

1 Knee joint, 227 cases=18 per cent of the whole improved 100 per cent number, and 23 per cent of cases of bone tuber-33 per cent in children under 16 years of and of the cases of bone-tuberculosis, 17 per cent Cured and improved 69 per cent, died 14 per in children cent, of which 5 per cent were children Resection was performed in 27 cases, amputation in 49, 6 of 0 7 per cent of cases of bone tuberculosis, 1 per these after previous resection

2 Ankle joint and foot-bones 187 cases=145 per cent of all cases of tuberculosis, and 19 per cent of cases of bone tuberculosis Of children under 16 years old there were 38 per cent Cured and im- Cured and improved 60 per cent 46 cases, amputation in 16, 6 of which were after o I per cent of cases of bone-tuberculosis Cured

previous resection

3 Hip joint 160 cases=12 per cent of all tuberculous cases, and 16 per cent of cases of bone-tuberculosis, under 16 years old 68 per cent, Cured and improved 60 per cent, died 194 per cent. Of the cases in children 24 were resected, in i exarticulation was performed

4 Elbow joint 86 cases=7 per cent of all tuberculous cases, and 9 per cent of cases of bone-tuberculosis, children under 16 years 36 per cent Cured more frequent in adults than in children

28 cases

5 Bones of the hand 76 cases=6 per cent of cases, and 8 per cent of cases of bone-tuberculosis, 26 per cent in childhood, the cases of spina ventosa being Cured and improved 68 per cent, died Resection was done in II cases, and eliminated 11 per cent amputation in 10

6 Vertebral column 74 cases=5 7 per cent of all cases, and 7 5 per cent of cases of bone-tuberculo sis, 43 per cent in childhood Cured and improved

58 per cent, died 176 per cent

Tibia 44 cases=3 per cent of cases, and 4 per cent of cases of bone-tuberculosis, 43 per cent in Cured and improved 795 per cent, childhood died 4 5 per cent

8 Shull and bones of face 40 cases=3 per cent of cases, and 4 per cent of cases of bone-tuberculosis, 37 5 per cent in childhood Cured and improved The ovaries so per cent, died 5 per cent

9 Pelvic bones and sacrum 35 cases=2 7 per cent of all cases, and 3 6 per cent of bone tuberculosis, 11 per cent in children Cured and improved 23

per cent, died 46 per cent

To Sternum and ribs 35 cases=2 7 per cent of all cases, and 3 6 per cent of cases of bone-tuber culosis, 12 5 per cent in children Cured and improved 63 per cent, died 11 per cent

There was no case of carres of the clavicle

11 Femui 19 cases=16 per cent of all cases, of the cases in children Cured and improved 74

12 Shoulder-joint 15 cases=1 per cent of all cases, During the last ten years from which the statistics and 15 per cent of tuberculosis of bone, 22 per cent of cases in children Cured and improved 87

13 Ulna 14 cases=1 per cent of all tuberculous cases, and 1 4 per cent of cases of bone-tuberculosis, 29 per cent of the cases in children Cured and

14 Humerus 12 cases=almost 1 per cent of all

All cured

15 Radius 7 cases=0 5 per cent of all cases, and cent in children Cured and improved 86 per cent, died 14 per cent

16 Fibula 5 cases=0 4 per cent of all, and 05 per cent of cases of bone-tuberculosis, all in adults

17 Patella 1 case=0 08 per cent of all cases, and

II Tuber culosis of lymph glands -In all 196 cases =15 per cent of all cases of tuberculosis, 3t per Cured and improved 795 per cent in children cent, died 4 per cent

III Tuberculosis of the skin and cellular tissue -In all 77 cases=6 per cent of all cases, 34 per cent in children Cured and improved 74 per cent, died

Contrary to Volkmann's experience, in the clinic at Wurzburg tuberculosis of the skin was

IV Tuberculosis of accessible mucous membranes cases the arm was amputated, and resection done in In all 10 cases=0 8 per cent of all cases, only in 20 per cent There were two cases of tuberculosis of the tongue, 4 of tuberculous fistula ani, 1 tuberculous bursitis, I of tuberculous enteritis, and I of

tuberculosis of the pharyn V Urogenital apparatus — In all 20 cases in males, 25 per cent of these in boys Cured and improved 65 per cent, died 10 per cent There were 18 cases of tuberculosis of the testicle, and 2 of tuberculosis of the kidney Of the 18 with tuberculosis of the testicle 12 were castrated, 2 on both The outcome of sides, of these 5 were children these cases is directly contrary to Volkmann's dictum that castration is of no use in children — Centrallil

für Chirurgie, No 8, 1888

Intralaringeal and Intratracheal Thiroid growths composed of strumous thyroid glandular tistrachea, in the Tubingen clinic since 1874 Ziemssen was perhaps the first to describe these tumors press the posterior wall of the trachea or histogenesis of these tumors is an interesting study mors were isolated from the thyroid gland, they caused no ulcer of the trachea, the mucous mem-The thyroid proper was little or not at oxysms of cough all enlarged These cases are, from a clinical standpoint, intralaryngeal or intratracheal struma is to be also remarked that these growths cannot be the thyroid projecting or compressing the larynx or trachea They are rather accessory thyroid glands is avoided by most other tumors of the larynx, as any way with the cords

In all four recorded cases the tumors were sub-In the cases of Bruns the tumors extended from the glottis to the extent of two to four tracheal rings In Ziemssen's case the tumor began in the middle of the cricoid cartilage, extending downward The above situation is a constant one The surface of the tumors is smooth The tumors had a of the arterioles There are infrequently papappearance and often multiple, the latter are small ever toxic symptoms are observed

in both cases multiple Enchondromata are someare useless here the trachea This may be obviated by the Trende- toms lenburg tamponade agreeable tendency to cough, this may be obviated March 14, 1888 by painting the surface of the trachea with a 2 per cent solution of cocaine The galvano caustic ap paratus was used in two cases, the scissors in one complete -Bestrage sur Ilin Chir von P Bruns, in the muscles Tübingen, 1887 Annals of Surgery, April, 1888

method of treating pulmonary tuberculosis, which, EAL TUMORS -DR A Heise reports 3 cases of new if not curative, would appear to possess a beneficial power over the progress of this dread malady sue, occurring within the interior of the larynx and method consists in the systematic inhalation of an atmosphere impregnated with the fumes of sulphurous anhydride (SO₂), and several ingenious plans of He records, in 1875, a case occurring in a shoemaker obtaining a constant supply of the gas have been 30 years old This tumor was situated so as to com- devised, the best of which is a lamp constructed to The origin burn bisulphide of carbon The simple plan of burning flowers of sulphur in a closed room can, however, In the cases recorded in the Tubingen clinic the tu- be resorted to if desired Under its influence, it is said, the expectoration becomes more liquid, the mucous surfaces are relieved from the irritation brane was intact over their surface, they protruded caused by the presence of muco purulent secretions, into the lumen of the larynx or trachea, causing and the patient is spared the fatigue of violent par-In a certain number of favorable cases the improvement in the general health which But it follows is reported to be sufficient to allow of the cicatrization of cavities, and the subsidence of the classed among the malignant or benign growths of more disquieting symptoms. The irritating effects of the vapor may be mitigated to some extent by burning opium and gum benzoin at the same time developing from an anomalous disposition of some Some two hundred observations have already been embryonal thyroid tissue in fœtal life The tumor recorded, and the results have been sufficiently good was situated, in the 3 cases of Bruns, on the poste-to warrant a more general trial Caution is advisa-rior wall of the larynx and trachea This situation ble in the quantity of the gas, which should not exceed a certain proportion, which must be ascertained the papillomata The tumors are not connected in by close supervision of the patient during its administration — British Medical Journal, March 17, 1888

WHEN SHOULD ANTIPYRIN BE GIVEN -Antipyrin should be administered with or immediately after a meal, otherwise pain, nausea, and discomfort may result from its contact with the walls of the stomach The cutaneous manifestations which sometimes fol-In one case low its ingestion are probably due to vaso-motor of Bruns the thyroid gland, though little enlarged, disturbances characterized by peripheral dilatation characteristic cylindrical form, with broad base. The ulated that of scarlatina, with intense itching. There In certain cases the rash has simdyspnœa was a gradually increasing one The differ- is every reason to suspect that in consequence of ential diagnosis concerns only benign growths situ- the present great demand for the drug, due care may not be employed in its manufacture, and it is illomata or fibromata The former are cauliflower in suggested that an analysis should be ordered when-Dujardin-Beaumetz claims to have detected a mixture of benzine Adenomata have only been observed twice, and in certain samples, the presence of which would explain many untoward effects It should be borne what more frequent In all of the cases of Bruns in mind, especially by the public, that we have in the tumors were removed by extra-laryngeal interfer- antipyrin a useful but potent agent, the use of which The intralaryngeal methods in unskilled hands may and will in a certain propor-The dangers are hæmorrhage into tion of cases give rise to severe and even fatal symp-Manufacturers would also do well to look a In incomplete narcosis the little more closely to the purity of the drug, othermanipulation of the mucous membrane causes a dis- wise it may fall into discredit - Medical Press,

Weil's Disease -A few years ago Prof Weil described a new infectious disease characterized by In all cases the recovery was most satisfactory and fever, headache, gastric disorder, jaundice, and paine In the Deutsches Archiv für klin Medicin there have been four or five articles on the Sulphurous Inhalations for Phthisis -A se- number Fiedler, of Dresden, records thirteen cases, ries of observations has recently been made on a and discusses fully the general characters and diag-

nosis of the disease sudden, without prodromata, and often with a chill | better than the ordinary syringe -St Petersburg The characteristic symptoms are those above men- med Wochenschift, No 37, 1887 The fever runs a typical course, and lasts The liver and spleen are from eight to ten days usually swollen, and the former is tender often occurs, and herpes and erythema have been The cases so far have been chiefly in men, and nine of Fiedler's patients were butchers The cause of the disease is prognosis is favorable unknown, but the fact that dealers in meats form such a large proportion of the cases suggests the direction in which the poison is to be sought Fiedler discusses the diagnosis, particularly from abortive typhoid, and concludes that it is an affection sur generis It is quite possible that the affection may prove to be a form of chronic ptomaine poisoning -Medical News, April 7, 1888

Contraindications and Dangers of Antipyrin -Eroy calls attention to the unpleasant and sometimes dangerous effects of antipyrin, which he has collated from existing literature

Nausca, vomiting, and gastro-intestinal disorders may result from the use of the drug Syncope has occurred, and Bentzeff believes that the drug always The opinions of Moncorvo causes this tendency and Dujardin-Beaumetz are quoted to show that the drug modifies the secretion of urine, and it is said that it closes or shuts up the kidneys Barr has recently recorded a case of collapse and death following the administration of from gr 15 to 30 in two doses. In one case of puerperal fever the drug caused a fall of more than 2 5° C, with vomiting and Rigors then came on, the extremities became livid, and the patient died in syncope in 32 hours An autopsy showed the spleen contracted, the kidneys shrunken and containing infarcts pears, however, that Eloy has not made out his case against antipyrin In the case of puerperal fever there is no evidence against the drug from the report of the It is not fair to attribute every and any unfavorable turn in a case to the use of the drug last administered]-Revue Gen de Clin et de Therap, March 1, 1888

TECHNIQUE OF ERGOTININ INJECTIONS --- A SCHUCKING repeats his claim that injections of pure ergotinin into the posterior or anterior lip of the uterus, is harmless, painless, and the best method The needle should be of administering ergotinin pushed about 2 to 4 inch into the tissue, and remain in place a few seconds In erosions and hyperplasias of the glands of the portio vaginalis the injection of iodine or Fowler's solution has given him good results -Centralbl fur Gynak, No 8, 1888

URETHRAL IRRIGATION IN GONORRHŒA -- PETERpoint in the treatment of gonorrhœa, because the new anodyne, the following is used opening is so small that a moderate sized stream only can be used, coming in contact only with a part of the mucous membrane of the urethra, and because the amount of pressure used is left to the patient

The onset of the affection is Petersen uses a urethral irrigator, and thinks it much

Hysterical Neurosis in a Child —Hellmuth Nephritis reports the case of a girl, æt 14, never menstruated, who had hallucinations of a religious character There was extreme cutaneous anæsthesia Under the use of chloral, paraldehyde, and dialysed iron and the following mixture the patient was cured in a

CCAS	
Podophyllin	gram
Ext belladonna	ลีลี 0 50
Ext aloes aqueous	1 50
Ext thrux q s sat	
<u>-</u>	ny

25 pills 2 pills morning and night

-Internat klın Rundschau, No 41, 1887

DRAINAGE OF THE PERITONEAL CAVITY -In the Société de Chirurgie, on March 7, M Terrier re ported seven successful cases of laparotomy in which drainage of the peritoneal cavity was used, without previous washing out of the cavity MM Bouilly and Terrillon, while they have no fear of drainage, think washing out better L'Union Medicale, No 33, 1888

MR ST CLAIR BUXTON finds the following formula uniformly successful in curing tobacco amblyopia

IIII y Succession	•	
Liq hydrarg perchloridi (B Potassii iodidi Aquæ destil	P)	gr vij 3°s
Mila c access		

To the above he adds for simultaneous administra tion the following pill

The pill of this strength is given Ft pil no i three times a day, and with the solution -Lancet, Feb 25, 1888

METHYLAL SUBCUTANEOUSLY IN DELIRIUM TRE-MENS — KRAFFT-EBING, after using methylal subcu taneously in twenty-one cases of delirium tremens, finds that it is the best agent for producing sleep in this affection, especially if there is an anæmic condi It is less valuable tion of the nervous system where there is hyperæmia

OINTMENT FOR SCABIES —LASSAR'S ointment, pub lished last week, should read

Naphthol, grm 5-10 Green soap Precipitated chalk Washed sulphur

-Jour Cutan and Genito Urinary Diseases, Feb ruary, 1888

METHYLAL —For the topical application of this

15 parts 85 " Ol amygdal expres _Amer Jour of the Med Sci, April, 1888

THE

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any stems of general interest in regard to local events or matters that it is desirable to call to the attention of the profession Letters written for publication or containing items of information should be accompanied by the writer's full name and address although not necessarily to be published All com munications in regard to editorial work should be addressed to the Editor

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SATURDAY, APRIL 21, 1888

MERCURIC ALANINE IN SYPHILIS

DR R DE LUCCA, Assistant in the Clinic of Prof Ferrari in the University of Catania, has recently published, in La Riforma Medica, March 22 and 23, 1888, his results with alaninate of mercury (mercuric He was led to make the experiments with this compound after seeing Schmiedebarg's Compendium der Pharmacologie, in which it is stated that combinations of the oxide of mercury (HgO) with certain amidic acids of the fatty series (acetamide, glycocollamine, asparagine) should act well in the treatment of syphilis, and these preparations have the advantage of being very soluble and easily absorbed Preliminary experiments on animals showed that mercuric alanine was not very toxic, and caused no local irritation when injected under the skin

Alanine is α -amidopropionic acid, produced by the action of alcoholic ammonia on α -chloro- or α bromopropionic acid, or by heating aldehyde ammonia with hydrocyanic acid and hydrochloric acids, the reactions being precisely similar to those by which glycerine is obtained from the corresponding derivations of acetic acid Alanine unites with acids, bases, and It crystallizes in tufts of hard needles, dissolves in 5 parts of cold water, less easily in alcohol, and is insoluble in ether. When slowly heated it melts and sublimes undecomposed, but when quickly heated it is resolved into carbon dioxide and ethlya Nitrous acid converts it into lactic acid

The alanimate of mercury used was prepared in the following manner 1 part of alanine was dissolved

ally raised to the boiling point, while the liquid was boiling it was poured over a small quantity of the oxide of mercury (HgO?) until it was all dissolved Then the liquid was filtered and evaporated, the residue crystallized, and a whitish substance, mercuric alanine, was obtained, which under the microscope showed the characteristic needle-shaped crys-When thus pretals, grouped in crosses and tufts pared alanmate of mercury is soluble in 3 volumes of cold distilled water, this aqueous solution is perfectly colorless, clear, is changed neither by exposure to air nor light, and will keep indefinitely In dilute solution it will not coagulate albumen, in concentrated solution its coagulating action is limited to causing a cloudiness of that part of the liquid with which it comes in immediate contact. In other respects it has the general properties of other salts of mercury

In practice De Luca used the drug in three different solutions, of 4, 8, and 10 mgrm to 1 ccm of distilled water (gr $\frac{1}{16}$, $\frac{1}{16}$, and $\frac{1}{16}$ to 16 \mathbb{M}), both for internal and hypodermatic or intermuscular use was used by injection in 20 cases (adults), 19 cured, one improved The quantity used daily on each patient was from 5 to 10 milligrams (13 to 1/6 gr) The average number of days of treatment for each patient was 37 o5 days, average number of injections to each patient 27 7, average age of patients In the case of improvement that was 23 2 years not cured the patient stopped treatment cases were those of secondary syphilitic lesions The average quantity of the drug used was 228 mgrm (35 gr) to the patient Suppuration at the site of injection occurred only 3 times out of all injections, 53 per cent As regards the duration of treatment, then, mercuric alanine has a slight advantage over the bichloride, as to quantity, it has a decided advantage, being about as 22 8 to 42 to the efficacy of the alaninate, in 12 cases (out of the 20) that could be seen to find if any recurrence had taken place, there was only 1 recurrence, in a case of syphilitic papule of the larynx it seems that the alaninate gives more permanent results than other mercurial preparations in not a single case in which the drug was used by injection was any stomatitis or other unpleasant effect produced

From a tabulated statement of 20 cases treated by the internal use of the drug, it is seen that for the cure of 10 adults, with secondary syphilis, there was an average of 45 4 days and 641 mgrm (9 9 gr) of mercuric alaninate to the patient in 20 parts of distilled water, which was then gradu | dren treated 1 died on third day | For the cure of

9 children, average age 7 4 months, with hereditary or acquired syphilis, each required an average of 54 6 days and 159 mgrm (2 45 gr) Of these cases 6 were seen in from 8 to 9 months after treatment, and there was no recurrence in any one There was not a single case of stomatitis, and there was only i case of intolerance to the drug on the part of the stomach, which was completely controlled by the administration of cocaine As regards the internal use of the alaninate, then, it is not to be preferred to the tannate or the phenate in the opinion of De Luca, but the easy tolerance of the drug and the excellent manner in which it acts on the syphilis of infants make it an important addition to the list of antisyphilities The child that died was only 2 months old, and was in a desperate state when it came under treatment De Luca claims that the decidedly calmative action of the drug gives an especially happy effect in infants

While 40 cases may be considered a small number from which to draw conclusions, the good results obtained by De Luca show that this preparation of mercury is one well worth trying Possibly it may be found that it will give good results in the late manifestations of syphilis

TIGHT LACING AND GALL STONFS

The advocates of female dress reform and the enemies of the corset will be pleased to know that there is a causal connection between tight lacing and At least, so says Professor F Margall-stones CHAND, of Marburg, in the Deutsche medicinische Wochenschrift, of March 22, 1888 One may be easily convinced, he says, that gall-stones and lacingfurrows of the liver are very frequently coincident, and when the situation of the lacing-furrows are observed with reference to the gall-ducts on a preparation, the whole matter becomes quite clear rule the course of the lacing-furrow is obliquely across the right lobe of the liver, from which there is'a tendency to atrophy, of various degrees, in the region of In the higher degrees, in which a the gall-bladder true lacing-lobe is formed, the gall-bladder remains entirely on this part of the right lobe, and the thinned portion of the liver is just at the region of the neck of the gall-bladder and of the cystic duct infrequent, in such cases, to find the gall-bladder tightly distended, and extending far beyond the border of the liver, and in these gall-bladders stones are requently found

have to deal in these cases with a striking and fre- Aerzte, has issued a circular asking for information

1

quent coincidence, or with a true causal relation The first is not impossible, since both lacing furrows and gall-stones are of frequent occurrence, and both are frequent in the female sex Stagnation has been held to be one of the most important causes of gall-stone formation, though it is extreme ly probable that there is also a chemical change in the composition of the bile that plays an impor tant part Anything that may cause thickening of the bile, occlusion of the bile-passages, faulty evacua tion, especially when the bile is thick and rich in solid matters, leads to the formation of nuclei, upon which stones are easily formed Anything that exerts pressure on the bile-passages, especially on the cystic duct, may be considered as favoring the formation of biliary calculi Pressure upon the border of the ribs may exert such influence It is known that sedentary habits predispose to some degree to gall

In the case of tight lacing the pressure of the bor der of the ribs upon the liver acts continuously only At night there is no pressure, or during the day much less, and then only when the tight lacing has This intermittent changed the form of the thorax pressure, Marchand claims, actually favors stagnation of bile and the formation of concretions in the gall bladder, it becomes distended during the day, and cannot empty itself completely at night Marchand's opinion, the first and most frequent cause of the formation of gall-stones is of a mechan ical nature, and in the numerous cases that occur in women he thinks that the mechanical factor is tight And not only cases of calculi of the gall bladder, but many cases of cancer of this viscus may be attributed, he thinks, to tight lacing, and he illus trates the manner in which the liver is pressed into by two cuts from actual preparations of cancer of the liver with biliary calculi

It is probable that Marchand's theory is applicable to many cases of gall-stone, and some cases of can The deformity of the cer of the liver, in women liver that is sometimes produced by the pressure of corsets and stays is a matter that almost any pathol ogist of large experience can testify to, and the sur gical world was but a short time ago astonished to learn that Langenbuch had excised a third lobe of the liver, caused by excessive pressure

COLLECTIVE INVESTIGATION OF SYPHILIS PROFESSOR KOBNER, of Berlin, Chairman of the Of course, there is some question as to whether we Committee of the Deutsche Naturforscher und regarding syphilis and the methods of treating it The circular states that the statistical publications from institutions and private observers regarding syphilis and the different methods of treating it are faulty because they contain many sources of error that cannot be properly eliminated, and because of the great inadequacy of the material published, since they deal only with the treatment of certain syphilitic symptoms, without regard to the different syphilitic individuals, though the great influence of andividuality on the natural course of syphilis, uninfluenced by therapy, is recognized by all On account of this one-sided method of making and re cording observations there still remain many points in the pathology and especially the treatment of syphilis, as regarding the relations of syphilis to other diseases, for which thousands of cases might Furthermore, it is important, for purposes of comparison, to know how other diseases, such as scrofulosis, tuberculosis, etc., are affected by the complication of syphilis and the methods of treating it Such an investigation, well carried out, can scarcely prove otherwise than valuable

A FASTER OF THE 16TH CENTURY -A recent number of the Archives de Neurologie publishes a report of Bucoldianus and others on a wonderful fasting girl whom the Emperor Ferdinand visited in 1542 This girl, 12 years of age, took neither food nor drink for a year, the report says, and learned men were at their wits' ends to account for the marvelous fast Hufeland's "Makrobiotik" is an account from the Historie de l'Académie Française, of 1769, of a case an which an insane officer took no food for 46 days He drank only water with a few drops of brandy in 1t, and during the last 8 days no water 36th day he was unable to stand On the 46th day he saw a child with a piece of buttered bread, when he began to eat, and soon recovered

DR C R AGNEW -- We regret to learn from the daily papers that Dr C R Agnew, of New York, is suffering from a severe attack of perityphlitis, and that there are doubts of his recovery Dr Sands performed laparotomy on him last week, but though some pus was evacuated the condition of the patient is very unfavorable at last accounts

A New Culture Fluid -Apothecary James Section on Ophthalmology, Otology and Laryngology Kunz, of Bern, exhibited to the Medico Phamaceu-

fluid that has the advantage of containing no pepsine, the presence of which renders the examination of bacterial cultures for ptomaines so difficult fluid is colorless, so that the growth of microbes may be very easily observed It is prepared by the digestion of albumen, ox pancreas, and water

TRAINING SCHOOL FOR NURSES IN LOWELL-From the Annual Report of the Lowell Hospital Association, January 1, 1888, we learn that a training school for nurses has been established in the Hospital, and that a course of twenty-four lectures on nursing was provided for the past winter

A BUILDING FOR THE BERLIN SOCIETIES -A plan is on foot in Berlin to construct a large building for the scientific societies of the city Most of the details have been arranged

Professor Donders has recently celebrated the 50th anniversary of his Professorship in the University of Utrecht

ASSOCIATION ITEMS.

THIRTY-NINTH ANNUAL MEETING,

To be held in Cincinnati, Ohio, May 8, 9, 10 and 11, 1888

> President, A Y P Garnett, M D, of Washington, D C

> > PAPERS AND DISCUSSIONS

The following additional titles of papers to be read at the approaching meeting have been received since the programme was published in the issues of THE JOURNAL for April 7 and 14

Section on State Medicine

On Thursday -b "What Evidence is there For or Against a Malanal Germ?" by Samuel N Nelson,

Section on Practical Medicine, Therapeutics and Physiology

"Etiology of Typhoid Fever" by V C Vaughan, Ann Arbor, Mich

"On Headache from Overlooked Causes in the Naso-pharynx and Ears, by Henry Gradle, Chicago

Section on Medical Jurisprudence

"Points Touching the Medical Jurisprudence of Alcoholic Inebnety," by S L Wright, Bellefon-

"Some Observations on the Extraction of Catartical Society of Bern, on Dec 6, 1887, a culture- act without an Iridectomy, and the Use of the Bandage in the After-treatment," by Geo E Frothing-

ham, of Ann Arbor

"Further Remarks on the Necessity for Reform in the Manner of Designating Lenses," by Dudley S Reynolds, of Louisville

"Fatty Tumors of the Orbit," by Jas H Buck-

ner, of Cincinnati

"A Case of Atrophy of the Bulbs of the Supercilia and Cilia, Associated with Atrophy of all the Fingernails, Microscopic Specimens of Cilia and Supercilia, and Cast of Fingers," by R Tilley, of Chicago

"Passive Motion in the Diagnosis and Treatment of Middle-Lar Affections, with a New Otoscope

(Pneumatic)," by S S Bishop, of Chicago
"The Tonsils as a Cause of Naso-Pharyngeal and

Aural Disorders," by H Gradle, of Chicago

"Tonsillotomy, with a New Tonsillotome," by S S Bishop, of Chicago

Section on Dermatology and Syphilogiaphy

Chairman-I. Duncan Bulkley, New York Secretary-Fayette Dunlap, Danville, Ky

FIRST DAY

Address by the Chairman, "Syphilis as a Nonvenereal Disease

Discussion on "The Etiology and Treatment of Eczema," opened by Dr Bulkley, or another

Nervous Causation of Eczema," by E Cheney,

Boston

"A Clinical Study on the So called 'Prairie Itch,' 'Lumberman's Itch,' etc, with a Consideration as to its Entity," by W T Corlett, Cleveland, O

"Two Cases of Pityriasis Rubra (primary exfoliative dermatitis)," by Frank Woodbury, Philadelphia

SECOND DAY

Discussion on "The Limit of the Period during which Syphilis can be Communicated by Contagion or Inheritance," opened by L B Bangs, New York

"Double Chancre à distance, an Inquiry into Syphilitic Automoculation," by A H Ohman-Dumesnil,

St Louis

"The Importance of Local Treatment in Syphilis," by Joseph Zeisler, Chicago

THIRD DAY

"Tuberculosis Cutis, with Report of a Case," by

George T Elliott, New York "Clinical Remarks on Perforating Ulcer of the

Foot," by John A Wessinger, Howell, Mich "The Use of Arsenic in Dermatology," by B M

"On the Value of frequently repeated Doses of Ricketts

Arsenic in the Treatment of Bullous Diseases of the Skin, especially in Children," by L. Duncan Bulkley, New York

RAILWAY ARRANGEMENTS

Attention is called to the advertisement of the Monon Route on the inside back cover of this issue This line has arranged to furnish and no one making one of this special party will regret having made the trip gret having made the trip

SOCIETY PROCEEDINGS.

COLLEGE OF PHYSICIANS OF PHILADELPHIA

Stated Meeting, March 7, 1888

THE PRESIDENT, 5 WEIR MITCHELL, MD, IN THE CHAIR

DR JOHN ASHHURST reported a case of

SUCCESSFUL SIMULTANEOUS TRIPLE AMPUTATION FOR RAILWAY INJURY

(See THE JOURNAL of April 14, page 462)

DR WILLIAM HUNT said Dr Ashhurst has dwelt upon the importance of saving time. There is one way in which time might be saved, and that is by more than one surgeon operating at the same time Dr Morton and I have done that on two occasions, each taking a limb and operating at the same time I do not know how it would work with three

I should like to make a DR H C Wood said remark with reference to this point of keeping up the animal heat Many people die in acute disease, in acute poisoning, and after severe operations, be cause the temperature is not maintained I have proven by experiment that if two animals are sub jected to severe injury, and one is kept in a moder ately cool room, and the other in a hot room, the In this con one will die, and the other recover nection, I will repeat a suggestion made to me by Dr Dercum, which would afford one of the most efficient measures for maintaining temperature—and that is, to fill the ordinary water-bed with hot water,

and allow the patient to lie on it

I did not know DR CARR, of Washington, said until I heard the remarks of Dr Ashhurst the im I have perportance of a case that I have had formed a quadruple amputation for frost bite patient was brought into the hospital in a condition of collapse with the four extremities frozen reacted well, and remained in the hospital a week, when his constitutional condition became serious, and after consultation it was decided that amputa tion of the four extremities was desirable. I operated, removing one foot above the ankle, the other foot through the metatarsal joint, one forearm about its middle, and one hand, leaving a small stump of the thumb, disarticulating it at the metacarpo-The patient did very well phalangeal articulation

In operating I secured the vessels with hæmostatic forceps, and left the stump in that condition while I

proceeded to amputate another limb

I understood from DR J WILLIAM WHITE said Dr Ashhurst's paper that in his classification of triple amputations partial amputations were not in I had last year at the University Hospital a double knee-joint amputation, with amputation of a portion of one hand, leaving the thumb and one finger, and should have been glad to present the pa

In reference to the technique, I have only one or tient this evening

ing up the bodily heat reference to the use of wet towels, which can be packing wounds with iodoform gauze vents the formation of a blood-clot, which is perhaps, next to a failure to secure asepsis, the most temperature noted important cause of the failure to obtain primary union Where there is danger of oozing, he packs Dr Hunt is an old one remain from forty-eight to seventy-two hours majority of cases union by first intention is secured Even when it was left in situ for from four to six days such union occurred after suturing In a case by packing the first operative wound with iodoform gauze as soon as the vessels are secured, and then This could be done by an assistant, and the patient removed to the ward much sooner than if time were taken to introduce stitches The or three days

deal of pleasure to the remarks as to the temperapossible influence of irrigation upon these cases

I would like to ask what some of the gynecological operators would say In their cases the abdomen is sometimes largely opened, and the intestines exposed, if irrigation lowers the temperature in ordinary surgical cases, how much more should it do so in these?

I think it would be advisable to have a series of ether, chloroform, and perhaps other anæsthetics, upon the temperature, when used for long periods As concerns the interesting case of triple amputaject here awaits some industrious observer

DR WHITE said made at the University of Pennsylvania, upon animals and clinical subjects, to determine the ble exposure of the lower part of the abdomen even where no operation of any sort has been confirms it

which the temperature fell four degrees The tem- operation of equal gravity in the whole range of eration (which was the removal of a tubercular testicle) it was 95° No irrigation was employed treatment, and I am in the habit of employing it,

duce the temperature, and, in fact, may aid in keep- similar results, though the average reduction of tem-The same is true with perature was not more than two or three degrees

DR WILLIAM GOODELL said In removing the wrung out of hot water and frequently renewed | ovaries, one has to be very cautious on account of Bramann, assistant to von Bergmann, has recently the collapse that may occur if the ovary is pinched detailed the results obtained at the latter's clinic by or roughly handled Something similar, I fancy, This pre- would occur in the removal of the testicle, and this, I think, had a good deal to do with the fall of the

DR ASHHURST said The suggestion made by Before the days of anæsthe wound with iodoform gauze, which is allowed to thesia it was thought that the patient might suffer It is less pain by having both operations done at once, then removed and the sutures applied, in the vast but, when the patient is insensible, there will certainly be less confusion by having only one done at

With reference to irrigation, as I have already of double or triple amputation time might be saved mentioned, I have seen the temperature fall as low as 97° after a simple operation, and in operations not usually considered capital, such as the removal of the breast, the temperature has gone even lower, and the patient has remained in an extremely critical condition for hours This has been where there has suturing could be done any time during the next two been no loss of blood, and no condition other than the irrigation to account for it In cases where an-DR MITCHELL said I have listened with a great tiseptic measures have not been employed, I have not seen this depression, except when there has ture of patients under ether or chloroform, and the been great loss of blood, or unnecessary exposure of the patient

In my list I have not included any but synchronous major operations The cases reported to-night seem to have been instances of minor amputation, as regards some of the parts removed, and can, therefore, technically be looked upon as only double, not triple or quadruple amputations

Another word with reference to irrigation, even experiments and observations as to the effects of if warm solutions be employed, they will tend to cool the body by evaporation, and the same is true with regard to wet towels, even if hot when applied, they will reduce the temperature unless covered with tion shown us by Professor Ashhurst, I would like to oiled silk, to prevent evaporation I do not think say that no physiological statement has been made, that the administration of ether alone has much so far as I know, as to the effect of large losses of effect upon the temperature, but under any circumtissue upon the pulse, temperature, nutrition, blood- stances we can better dispense with irrigation and A tempting sub- wet towels than with anæsthetics

In regard to the case of excision of the testis, Experiments are now being which has been mentioned, it may be said that operations on the testicle necessarily require consideraeffect of the administration of ether on the bodily is also a well known fact, that division of the cord is temperature, and seem clearly to indicate that a often followed by profound shock This observation drop of from one to three degrees may be expected, has been made by Mr Erichsen, at the University not only in cases where no irrigation was used, but College Hospital, London, and my own experience The moment that the cord is divided, The note of a case has just been handed to me, in from removal of the testicle than from any other

I have no objections to the antiseptic method of No general symptoms of shock, such as weakness or but I think we should not close our eyes to the fact fulure of the pulse, leakage of the skin, or shallow- that it may have some disadvantages I think that ness of respiration, were observed in this case A the maintenance of the patient's temperature is of series of nine cases of all sorts of operations gave more importance than the exclusion of a few

All that can be accomplished by irrigamicrobes tion can be equally accomplished by washing the part before and after the operation, care being taken to keep the patient warm and dry The ordinary antiseptic dressings were employed in this case after the operations, I consider that their chief advantage is that they permit infrequent dressing of the wound

MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA

Stated Meeting, December 14, 1887 THE VICE-PRESIDENT, D S LAMB, M D, IN THE CHAIR

DR LACHIAN THER presented a specimen, and read the history of several cases of

RUPTURE OF ANTURISM OF THE AORTA

Case 1 -On November 7th last, I made an autopsy of the body of a colored man, R M, about 40 years of age, who had received medical attendance at the Freedmen's Hospital fifteen days previous to death, but had consulted no physician subsequently was reported to have suffered intense agony for several days, and especially hours immediately before death, the pain complained of being located in the abdomen, left side, and in the lower part of the back I found death to have resulted from the rupture of an aneurismal enlargement of the abdominal aorta The intestines and peritoneal replications were flecked with clotted blood, which was, however, collected principally at a point of rupture just above the bifurcation of the aorta, and then formed an intricata hæmatoma in the meshes of the surrounding cellular tissue

Case 2 -On December 1st last, in an autopsy of the body of a white man, R C, 38 years of age, I found that his death had been caused by rupture of The history of the case the left auricle of the heart was to the effect that he had been accidentally run over by a dirt-cart, and died in a few minutes after-No external mark of injury was observed, but upon opening the thorax the middle segment of the sternum (gladiolus) was discovered to have been The theory accepted was that the heart bone and the spinal column forcibly enough to cause lapse, dying in about one hour after the doctor was had been compressed between the racilient breast

from whose thoracic cavity the specimen which you sternum there was found to be a large deposit of fat He was about 50 years of see here was extracted age I learned that he was a carpenter by trade and had left his home in the morning to go to work as usual, when he was suddenly stricken by death a You will observe an aneurismal block or two away enlargement of the aorta with a stellated rupture within the line of attachment of the pericardium The pericardial sac was filled with clotted blood and The man had experienced no dysphagia, but fre- tion from apex to base

quently complained of pain beneath the left shoulder blade, and also dyspnæa upon much exertion, his feet and ankles had occasionally become ædematous No alteration had ever occurred in the voice Rheumatism had been complained of, but the joints had never been enlarged, and he had never been confined to bed from the disease All the viscera ac cording to gross appearances were in a normal condition

DR REYBURN thought it rare to find rupture without hypertrophy or any lesson of the heart

DR BRYAN saw a case several years ago when attached to the U S S Powhattan, in a sailor, aged 40, stout, and round shouldered, had enlisted on account of dissipated habits Being a sail maker, he was compelled to bend forward most of the time Dr B was called to see the patient while at work one evening about 10 o'clock, and found him suffer Patient said he had felt pering from hæmoptosis fectly well during the day, had "turned in" about the usual hour, and fallen into a sound slumber from which he was suddenly aroused by a feeling of oppression in the chest, the dyspnœa increased, and his mouth was filled with a salty fluid which he at first spat out, but which later on spurted out of his mouth It was impossible to estimate accurately the quantity of blood, but it was thought to be over an ounce A thorough examination of the chest was made the fol lowing day, and the heart sounds found to be normal, all over the anterior and posterior surface of the left chest from near the apex to the base numerous large The percussion and fine moist rales were heard Four days after note was not perceptibly changed the first attack, in disobedience to strict orders, he made some undue exertion, followed by a sensation of something giving away in his chest, and almost immediately a large quantity of frothy blood spurted out of his mouth. This hæmorrhage was alarmingly profuse—the quantity of blood lost being much greater than at the first attack The patient rallied and rapidly regained his strength under treatment The chest was frequently examined but nothing could be found to account for such a profuse hæmorrhage Two months after the second attack, being called to the patient's cot, found him bleeding profusely This time the blood was vomited, was dark and grumous at first but soon changed to normal red color He complained of great distress in the epigastrium Then suddenly ceased vomiting and went into col

The following is the result of the autopsy so far as mortem examination in the case of the colored man it relates to the aneurisms Thoras -On removing found in the pericordial sac and the pleural cavities, the lungs were easily removed from the thoracic cavity, were free from adhesions, except the left which was attached by the posterior surface of the apex to the arch of the aorta and the junction of its adhe On section the right sive and descending portions lung presented a slight pigmentation, otherwise nor-The left was the seat of an intense pigmenta Removing the left lung

from the thoracic cavity it was detached from the cones and have it examined English walnut and was found to communicate with dangers The heart was next removed with male agents several bronchi the acita attached as far down as the twelfth dorsal The left ventricle was slightly hypertro phied, and there were a few fibrinous clots on the failed to detect its constituents The aorta was next laid open and in aortic valves its course were found two aneurisms one at the termination of the transverse portion of the arch which was filled with a firmly organized blood clot, the second aneurism was situated lower in the course of the aorta, opposite the fourth dorsal vertebræ the body of which was crowded down to its center this point the aorta was adherent to the cesophagus, and communicated with it by a small opening was a large gangrenous ulcer, and it was through this half inch long that the blood forced its way into the œsophagus At the time of the autopsy the aneurism was empty The walls of the aorta were much thickened and the internal surface was rough, presenting numerous small elevations and depressions for some distance down its thoracic portion There were numerous small ulcerations in some of which fibrinous deposits were found The stomach when opened was found to contain 572 c c of blood

This case is of interest from the fact that the early symptoms were latent, which rendered a diagnosis impossible The case will be found reported in full in the Proceedings of the Naval Medical Society, No 5, Vol I

DR A F A King It is remarkable that so many of these cases are latent In some there are no symptoms that would lead us to suspect such a grave affection He could recall the case of a former member of this Society who died from the sudden rupture of an aneurism He had been complaining for a long time but aneurism had escaped suspicion He made an appointment to see Dr Donaldson, of Baltimore, but that morning, about 9 o'clock, while lying on his bed there was a sudden gush of blood from his mouth, he called to his servant to help him, but before assisobscured by the laryngeal symptoms, which is often difficult, much more so than of lateral defects

DR TYLER saw a case several months ago in a it may have hastened it

DR FREIDRICH presented a

CAST OF THE VAGINA PASSED AFTER THE USE OF A CONE CALLED "ORANGE BLOSSOM"

Several ladies had arch of the aorta, and a large blood clot was turned come to him to ask if they could use them for various out of a cavity found in the posterior border just uterine ailments. The Society should investigate the below the apex, the clot remaining adherent to the nature of this remedy in order to stop its use if it is The cavity was large enough to lodge an such a powerful astringent and fraught with such It is being extensively advertised by fe-

DR LAMB had submitted a cone to Dr Gray, of the museum, for microscopic examination but he had

Dr Busey had never seen such a vaginal desqua-He had seen flakes and coagulated secretions, but this specimen seemed to be a cast of the entire vagina

DR CW RICHARDSON read a paper on

A CASE OF LARYNGEAL GROWTH

(See page 481)

In answer to Dr Bermann as to the size of the Where the tumor pressed on the cesophagus there tumor, Dr Richardson said that it was about one-

DR BERMANN said that that explained the difficulty in finding it His method is to quiet the patient and then seize the tumor during violent expiration uses Storck's instrument, which pleases him better than that exhibited by Dr Richardson The growth can be got through the guillotine

PHILADELPHIA COUNTY MEDICAL SOCIETY.

THE VICE PRESIDENT, W W KEEN, M D, IN THE

Stated Meeting, March 14, 1888

DR CHAS HERMON THOMAS read a paper on

GRADUATED TENOTOMY IN THE TREATMENT OF IN-SUFFICIENCIES OF THE OCULAR MUSCLES (STEVENS' OPERATION)

(See page 485)

DR H T HANSELL I would like to ask Dr Thomas for a more definite statement as to the means of diagnosis To my mind these are not at all satisfactory The recognition and the exact determinatance arrived he died The true nature of the case was tion of superior and inferior insufficiencies are very

DR B ALEX RANDALL I have for years taken great interest in the subject of muscular insufficiency, man 50 years old Physicians had treated him for the more so because I have myself been troubled laryngeal trouble as there was almost complete loss with a defect of the kind, which Dr Risley corrected He suffered for a year, and then went to for me ten years ago, and with his kind aid, and inthe seashore where he derived much benefit Last dependently, I have been studying the matter since summer he was very much better, and the diagnosis As to diagnosis, much has been written, sometimes was made the day before his death He could not pretty wide of the mark, and I cannot see that Dr say that the information that he had an aneurism Stevens has improved our methods. He has brought killed him but he died the day after he was told and forward a very nice set of terms for what we have long known, and he has expressed clear cut opinions which read well In the same way, Landolt makes out very pretty graphic charts of cases, and marks out well defined groups, which are to be treated ac-DR Buser would like someone to get one of these in practice refuse very often to be included in such

categories, and very dissimilar cases afford discouragingly similar charts

I understand from Dr Thomas' paper that the estimation of defects is largely made with a distant object, presumably a light at twenty feet. To do this we must know the refraction and the accommodation and I suppose that these are investigated as a matter of course. But it is not safe to take the accommodation for granted. I can myself change my exophoria to apparent esophoria by the accommodative effort, so called, and every patient may as readily do the same

As to correction by operation, I cannot speak, like Dr Thomas, from personal experience We all know that when a certain degree of error is reached it is necessary to operate, and Dr Stevens places that point very low His method of operating is highly praised as a delicate one, but the necessity of dividing the operation into many steps is rather unfor-However, if he can thus relieve epilepsy, that minor disadvantage may be overlooked. It may be said in conclusion, that except in pointing out that hyperphoria is a frequent cause of perplexing and irregular insufficiencies of the lateral muscles (?), Dr Stevens has added little to our knowledge of the nature of these affections, that in his claims as to their importance, he has gone much further than the adorned experience of equally competent and diligent investigators has enabled them to confirm him, and that in his operative treatment he has merely developed a refinement of the partial tenotomy long in use, as the only means of correcting without overdoing it, the minute deviations from the perfect balance which he deems worthy of operative interference

Lack of time prevented me from DR THOMAS treating at length in the paper of the points as to diagnosis which have been made the subject of There is a variability, and yet, after all, questions a certainty in these tests which comes as the result of practice and observation There is an irregularity in the results of the tests from day to day, but after getting the extreme limits of the swing and studying all the circumstances of the case, one is able to strike an average which very fairly represents the error to be corrected Then a prism is tempo rarily adjusted to compensate for this error, and thus we make a crucial experiment and are further A lighted candle at guided by the effects obtained twenty feet, and the dot and line of von Grafe at reading distance, are both to be employed as test objects, and a comparative study should be made of the results obtained—both in the absence and in the In this way we frepresence of accommodation Sometimes anomalies quently get important clews appear in the action of the lateral muscles comparing the tests at reading distance with those at twenty feet, and when great erraticism of this sort is shown, we may be pretty sure in the majority of cases that we shall in the end find a manifested hyperphoria Unfortunately, there is no known analogue of the mydriatics which we can well use in these cases, and yet with great patience and watchfulness we shall My results are hopeful in epilepsy, usually succeed but my operations are too recent to speak positively of cure

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FROM OUR OWN CORRESPONDENT)

In eatment of Rotary Lateral Curvature of the Spine, its Present Status

At the March meeting of the Orthopædic Section of the Academy of Medicine there was an interest ing discussion on the Treatment of Rotary Lateral Cur vature of the Spine, in which it was apparent that the dependence on steel supports formerly so universal has to a large extent been abandoned, and that the methods of Mr Bernard Roth, of London, as described in his valuable and suggestive article on lateral spinal curvature in Heath's Dictionary of Surgery, the principles of which have for several years been advocated here by Dr Lewis A Sayre, are being received with no little favor by our Amer ican orthopædists Very deep regret was felt at the absence on this occasion of Professor Sayre, who is the Chairman of the Section, but he was ably repre sented by his two sons, who have already won an en viable distinction in the department of surgery which his achievements have so long and so brilliantly

The paper of the evening was by Dr Samuel Ketch, and its title was, The Present Status of the To eatment of Rotary Lateral Curvature of the Spine By this condition he said he wished to be understood as meaning that lateral deviation of a portion or the whole of the vertebral column which shows as its most constant factor the rotation, torsion or twisting of the bodies or segments of the bodies of the ver tebræ, with accompanying or consecutive alterations in the shape of the thorax No deformity, he thought, exhibited in its slow, insidious progression, its in volvement of area, its secondary effects on impor tant external organs, so decided alterations of form and such marked disturbances of function as this When it became recognized that the condition we had to deal with was but the effect of some cause, some irritation, in fact, the exact nature of which was as yet unknown, it would be seen that the prob lem of treatment embraced something more than the attempt to remove the mechanical results of such cause by the use of opposing mechanical means

The present treatment of the disease, he went on to say, consisted principally of two methods, or a combination of the two, viz by apparatus and by exercises, or by the combined use of the two Having stated that he did not think it necessary to speak in detail of the treatment by complete recumbency or that by cutting of spinal muscles (tenotomy), both of which might be useful adjuncts at times, he referred to the apparatus now used as being of two varieties, progressive and fixative He strongly condemned treatment by the constant action of cumbersome and heavy instruments which, by their abnormal pressure, often gave rise to large exconations, and even sloughs, of the skin In his opinion, no lever brace should be used for any other purpose than simply that of retaining the spine in an improved posi-

tion, previously obtained either by appropriate manual exercises or combined manual and gymnastic movements Such braces should be light, easily simple enough to be easily applied by those having the home care of the case The second class, or fixation apparatus, were originally constructed with the idea of firmly immobilizing the distorted spine in an improved position, obtained by suspending or extending the patient This original plan had been modified to the extent of opening the brace in front, whether constructed of plaster of Paris, poroplastic felt, leather, or other material, with the object of easy removal, in order to allow proper exercises, and give attention to the subjacent parts

In regard to the matter of exercises he said that he attached most importance to those which had for their object the "unfolding" of the twisted vertebral These could be applied with the greatest precision and benefit by means of the surgeon's hands, and no appliance could rival the ease, proper appli-Their success, however, depended on detail, and they should always, therefore, be given either by the surgeon himself or a thoroughly trained as-

As to the matter of a cure, in his opinion this involved not only the restoration of the lateral deviation, with its normal curves, but also the disappearance of that most constant feature of the deformity, As generally understood, however, a cure implied only the prevention of further deformity or an amelioration of the condition originally ob In the cases observed by him he had never been able to convince himself of the entire disappearance of rotation, while he believed it to be essential that this symptom should be prevented or removed before a vertebræ could be considered as restored to a perfectly normal state It was in the direction of prevention that he thought the most signal success could be achieved, and it was only by the earliest recognition of the symptoms and an appreciation of their importance that prophylaxis could be accomplished

In a paper on lateral curvature which Dr Ketch read before the Section two years ago, which was based on 229 typical cases presenting the deformity in question, he had made three divisions of cases first, those in which the deformity was first observed from the first to the twelfth year, or during the age of childhood, second, those in which it was first obit was first observed after the eighteenth year, or during the age of complete development the period of childhood the deformity occurred in 120 cases, or over one half of the whole number, and among the conclusions at which he arrived in the paper were the following

r Rotary lateral curvature is principally a disease of childhood, and may be either congenital or ac-

2 The disease should be looked for early in life,

tion of children's spines becomes most important towards the prevention of deformity

He did not mean to say that, even were the spines movable, to allow of inspection of the parts, and of young children to receive the utmost care, and at the first suspicion of deformity the child were taken to a surgeon, that we should not have lateral curvatures, but he felt convinced that the inveterate de formities now seen in so large a number would be few and far between

> Dr Phelps thought that in lateral curvature, if there were changes in the bone, no apparatus or gymnastic exercises would cure the deformity, but at the same time it was of advantage to suspend the patient and, having got him into the best position, to secure this permanently by some fixed apparatus Stillman's brace was probably the most satisfactory steel instrument that has as yet been devised, but so far as his experience went, the plaster of Paris jacket had proved by far the best appliance at the command of the surgeon

Dr A B Judson said that he had an aversion to cation of pressure, and safety which such exercises using mechanical support in lateral curvature, and he did not know that he had ever seen a case in which he had found mechanical pressure do any good many cases it would be likely to increase the deformity rather than to diminish it, if it were applied with much force If direct lateral pressure were employed the force would fall upon the ribs and be transmitted to the vertebræ, and this would only intensify the existing curvature If direct pressure could be brought to bear upon the bodies of the vertebræ it would accomplish what was wanted, but this was manifestly impossible, and he did not think that oblique force could be applied with advantage While he did not believe in the use of mechanical pressure to any extent, he had adopted a certain system of therapeutics which seemed on the whole to be satisfactory, although it was somewhat difficult to give the details of this treatment

In the first place he thought it advisable to place the patient in such a position that the deformity was reduced as far as practicable, and then have him remain in that position as much as possible each day He recognized the importance of superincumbent weight in the direct causation of the deformity, so that it was fair to assume that if the individual could have always been in a recumbent posture the lateral curvature would not have occurred Hence he thought it desirable that, as a part of the treatment, he should he down as often as possible in his waking served from the twelfth to the eighteenth year, or tients to do this for two, three, or more hours in each Again, when the patient was lying down he day believed it important that he should remain on his back, and not only on his back but in such a position that a lordosis was produced This was accomplished by placing an air pillow blown up to its full extent under him in such a way that the shoulders and hips hung down on each side of the pillow for this was perhaps a little theoretical tion of the spinal column it was clear that the ante-In the rotanor portion of the vertebræ was most at fault and as a factor in early treatment the careful inspec- cated in the anterior portion of the vertebræ, and same was true in Potts' disease, the disease being lotherefore in Potts' disease also we produced a lordosis if possible We removed the pressure from the anterior part of the vertebræ to the posterior

was comparatively free from the deformity, and that both braces and plaster of Paris jackets all gave tes was when the body was suspended through the action of the pectoral muscles, and for this purpose the horizontal bars, rings in Sayre's suspension apparatus were of value In this connection Dr Judson referred to the theory of Dr Henry G Davis, who claimed to have cured certain cases of pulmonary phthisis by increasing the capacity of the lungs in he felt more and more that most of the machines It was well known that rotary lateral which he had seen were worse than useless curvature produced deformity of the chest and reduced to a greater or less extent its capacity Therefore, whatever would increase this capacity would by cures, and what by exercises He was in the tend to improve the curvature

In regard to those inveterate cases which are regarded as incurable, he said he had never as yet had any such cases under treatment, but if he had a case which he thought was likely to go on to this condition, he would be more strenuous than usual in carrying out the various measures to which he had alluded In such a case he would, furthermore, use an apparatus, but it would be one in which no lateral pressure whatever was exerted It would be a brace which would keep the spine in a state of lordosis

Dr Reginald H Sayre said that he agreed with Dr Ketch in the opinion that preventive rather than curative treatment was what we must aim at in lateral He could also bear out the correctness curvature of his observations as to the occurrence of the disease in early life He had seen one case in which the curvature was said to have been present at birth, and another where it was noticed at the age of 6 months, while he had personally observed one case at 2 months normal form, he believed it to be possible only in form those cases where there was very slight rotation Those which presented considerable rotation and curving of the ribs, he thought, could never be restored completely to the normal shape They might, however, be benefited, and he had been surprised to see the amount of improvement attainable in very nastic exercises than by any other means advanced and, at first sight, apparently hopeless

If possible, he said, he would treat a case by gymnastics and massage alone, with the object of educating the muscles of the patient and enabling him to retain such improvement of position as he could make by manipulations and exercises which, being different in various cases, it would take too much time to describe on the present occasion If a case were sufficiently distorted to require mechanical support also, or if it was necessary on account of paralysis, he would use a plaster of Paris corset, as he had never seen a case which became worse under this methods which had been so long in vogue mode of treatment On the other hand, he had seen a number of most frightful distortions under instru- putting Roth's system to a practical test ments of various kinds, applied while the deformity was very slight, as attested not only by the statements cussion was the subject of measurements, and he of the parents, but also by photographs taken at the thought it was of the utmost importance that some time of beginning treatment, and as this result had definite system should be adopted upon which all followed and treatment and as this result had definite system should be adopted upon which all followed instrumental treatment in the hands of vari- orthopædic surgeons could agree In carrying out

ous physicians of large experience, with patients whom he had found most obedient in following out instructions, he was forced to the conclusion that the There was another position in which the patient fault lay in the method His patients who had worn timony in favor of the superior comfort of the latter, a cu cumstance which, he said, would lead him to use this method even were the results no better than those obtained by instruments When, however, he saw improvement in patients who had steadily grown more crooked during years of instrumental treatment,

Dr Ridler said that he thought that surgeons were not sufficiently definite as to what they meant habit of dividing the cases which he saw into three classes for prognosis and treatment. In the first class there was little or no rotation, and the spine could be put into what seemed to be the normal position for a brief space of time. In the second there was more or less rotation and rigidity of two or more segments of the spinal column, and the de formity could not be reduced, but pain and weak ness were absent In the third there was marked curvature and rigidity and, in addition, pain and In the first class of cases he believed that a cure could be effected, and here he deprecated all use of apparatus in the treatment In the second he was inclined to think, with Mr Bernard Roth, that the spine could be made straight and the rigidity Gymnastic exercises were of great serovercome vice, but mechanical means seemed to him of somewhat doubtful value, although in certain instances he resorted to them In the third class the spine could not be straightened, or the rigidity overcome, but As for getting a perfect restoration to the the patient could be made to carry himself in better Here he was accustomed to furnish certain exercises, and in addition to use an apparatus which would act somewhat like the hand of the surgeon in correcting the deformity Of course, much could be done by baths, massage and electricity, but more could be accomplished by the use of suitable gym

> In the matter of exercises Dr Ridler strongly ad vocated the system of Roth, in which the "keynote" position in which the patient is to be exercised is described as that position of the trunk and arms in which the greatest improvement in the position of A cure, he said, was considthe spine is obtained ered by Mr Roth to have been accomplished when the patient was so educated that the best possible position became an habitual one If we knew just what we could accomplish in any particular case, a definite plan of treatment could be adopted, which was much preferable to the uncertain and slipshod

Dr Gibney stated that he was now hard at work the points which had not been taken up in the dis-

Roth's method it was very difficult, he went on to the need of any operation say, to get dispensary patients to come to the surgeon every day, and he had recently organized an evening school of gymnastics for young girls affected with spinal curvature Their powers of resistance bade fair to be a very successful one

In closing the discussion Dr Ketch said, in reply to Dr Judson, that he thought any analogy between inflammatory disease of the vertebræ and lateral curvature was inadmissible It seemed to him, also, that Dr Judson had been especially fortunate in not having met with any of those inveterate cases re ferred to in the paper and the discussion He then The former condition, however, was usually detected soon after birth, and measures were taken Gynecology, edited by Dr E W Cushing to correct it of inveterate club foot than of lateral curvature, since the latter was not, as a rule, treated at a sufficiently After all, the prevention of deformity was the point on which he desired to lay most stress He believed that no two cases were alike, and whatever the plan of treatment adopted, frequent inspection and the most careful watching were essential on the part of the surgeon

LETTER FROM BOSTON

(FROM AN OCCASIONAL CORRESPONDENT)

The Murdock Liquid Food Company

There has been considerable interest in medical circles in this vicinity over a discussion in some of the secular and professional journals about a certain food preparation, manufactured in Boston Believing that this interest is not confined to the Hub alone, perhaps a few words may be written of inter-We refer, of course, to the Murdock Liquid year a hospital in the building devoted to the manufacture of their food preparations, the latest of which other is "Food Suppositories" This, the "Free Surgical Hospital for Women," is apparently the climax of Mr Murdock's charity, liberality, and ambition, following his "West End Boys Home" and "Infant Hospital" This building is situated in the never district bordening on the aristocratic Back Bay of Boston, is easily accessible by horse-cars and for both occupies a conspicuous corner the hospital supported from the proceeds of the work

The main entrance is to the office, in the corner of the building, the entrance to that part of the hospital devoted to the regular profession being on the left of this, while that for the Homoeopathic hospital is on the right seemed, as far as he was able to judge, to have de-the entrance to the office is a large terracotta repreveloped wonderfully already, and the experiment sentation of the Bulls, colored prints of which are so often seen in apothecary stores The office is beautifully fitted up, there being oil paintings on the walls, referring mostly to the reputed components of the liquid food, fruits, mutton and beef, and also many pictures representing the different processes of reproducing pictures One or two paintings lav claim to some old master, and the paintings of the Bulls is here, all pleasing to the eye of the observer remarked that there was no deformity so much like Scattered about are groups of well-known statuary that of club foot as rotary lateral curvature of the Adjoining this office is the elegantly equipped office of the journal published by the company, Annals of Hence we met with much fewer cases journal is probably well known to most of the medical profession in the United States, enormous numbers having been circulated of the first three issues, in order that every member of the medical profession in the country might become acquainted with it

Just here we will say, that many modern conveniences are found in this building, electric locks guarding the doors, electric clocks telling the time, and the building is lighted by electricity, has an elevator, and in fact is a well equipped building the basement is a large engine to furnish power for the system of indirect heating that Mr Murdock has inaugurated the air comes from the roof, by means of fans to chambers heated by steam pipes, whence it is delivered to the different rooms at a propei temperature, within a few seconds The second floor of the building is devoted to the manufacture, (for account see February, 1888, number of Boston Journal of Health,) bottling and storage of the preparations, while the third floor is devoted to the Hospital and its appurtenances The Hospital is in est to those more or less remote from the centre of reality two, they being entirely distinct and separate, each having its own entrance from the street for pa-Food Company, of which the principal, Mr Murtients and visitors, and each having its own staff dock, is the active agent in maintaining for over a made up of gentlemen of the Regular profession on the one side, and of the Homœopathic belief on the Each has its own operating room, small and large wards, etherizing room, waiting rooms and necessary sanitary arrangements of a hospital of the wards on the regular side is called the Fabiola Ward in memory of founder of some Roman Hos-The convalescent patients of both sides eat pital at the same table, one kitchen doing the cooking In the regular side are special wards for It is of brick, sev- septicæmic and cancer cases, and also a well equipped eral stories high, and, as said above, is devoted to laboratory for such bacteriological and pathological the preparation and putting up of the food, and to work as may be of interest to surgical gynecological Of the merits of the food as such, we will about 150 patients Dr E W Cushing has charge make no remark, beyond stating that it has been of the regular side, and Dr Packard of the Homeocommented upon in a late number of the Boston pathic. It was in this hospital that Dr Martin, of Journal of Health, and also state that in many of Berlin, operated while in Boston, performing his op-Mr Murdock's wide-spread advertisements, he claims eration of removal of the uterus through the vagina that under this food many patients recover without | Each patient is required to take a certain quantity

of the food at each meal, before and after treatment, and, as was previously mentioned, some have recovered on this alone, and a list of the number of operations may be seen in almost every news-

paper published in Boston

A few words in regard to the discussion As has been said, the Hospital has been under operation for over a year, and as Mr Murdock states in his advertisements, one side is under the management of gentlemen belonging to the Massachusetts Medical Society, these gentlemen being connected with it from the start The whole thing has been looked upon as not exactly the proper thing, still, nothing was done, and things simply took their own proper course, till the Boston Journal of Health, in a series of articles exposing fraudulent and deceptive foods and medicines, took up "Murdock's Liquid Food" among the number, exposing the falsity of the preparation, composition, and profit in a lengthy article Mr Murdock then saw fit to answer this, stating why he thought the article had been written, and denying some of the statements, making quite a breezy article To this the Journal replies only in stronger terms, denouncing in emphatic language the preparation, and replying to some of Mr Murdock's statements or rather mis-statements, things were getting interesting

In the meantime Dr Marcy, who had severed his connection some time previously to any thought of the discussion, published in the Boston Medical and Surgical Journal, a card stating his previous withdrawal from the Murdock Hospital, and giving as his reasons for so doing that the hospital was not acting up to its agreement, in regard to running and Immediately, Mr management of the hospital Murdock replies in the following number of the same journal, contradicting flatly some of Dr Marcy's statements, and referring to letters of the Council of Ethics of Massachusetts Medical Society, in commendation of the enterprise, which in the next issue of the Journal, was flatly contradicted by the Council, thus leaving the way open for Dr Cushang to show the letter which they claim he has not

Here the matter rested, and interest is still main-Mr Murdock has very tained as to the outcome much retracted and modified his advertisement in the daily papers, but probably with the means at his disposal, among which may be reckoned the Annals of Gynecology and the hospital, will endeavor to keep before the public the merits of his food preparations, while the Journal of Health intends pushing its exposé, and bring the whole thing plainly and truthfully in its proper light, along with others, the latest being Scotch Oats Essence

I hope we have not wearied you with this account of our little tempest in our medical teapot, which has been written only with the idea that some of the wrath and fury of the storm may have bubbled over, and reached the outside world, thus concerning, perhaps, others than the ones directly interested

INVERSION FOR SUSPENDED ANIMATION IN ANÆSTHESIA

Dear Sir -In THE JOURNAL of April 7th, is an editorial on the recent paper of Dr J J Chisolm, entitled, "A very valuable lesson for those who use anæsthetics" It is customary, I think, for a writer or a reviewer in papers like those just mentioned to allude to the published observations of others who have experimented in the same field I have not a copy of Dr Chisolm's article and do not know what reference is made to other observers The general reader would, however, infer from the editorial that what had been written previously had escaped the attention of the author and of the editor

The subject of position is cases of apparent death from the use of chloroform is of great importance After repeated experiments in cases of slight and alarming symptoms during the administration of chloroform, I became convinced that a sure remedy was at hand in every such case. If death has oc curred, there is reason to believe that there was carelessness in watching for the first cessation of breathing and of the heart's action, and that there was an attempt to use other means previous to the

complete inversion of the patient

As an interne in the Massachusetts General Hos pital I once aided a distinguished surgeon in holding suspended by one foot, a boy with a crushed thigh, who was, as it were, dead He was held in this posi tion till life reappeared My own observations and experiments were made in 1867-8, and were published in the Transactions of the Illinois State Medical So Portions of this paper were ciety for the year 1868 copied in the work of Prof H M Lyman on "Arti ficial Anæsthesia," etc The story of Piorry, Nélaton and the rats was entirely unknown to me at the time The late Dr J Manon Sims, I made my report and a physician in New Orleans, whose name I have forgotten, published articles on this subject some E L HOLMES, M D years since

Chicago, April 16, 1888

[The limits of editorial space precluded the publi cation of the names of men that have used inversion in the cases under consideration, and their experi ments The writer of the editorial article in question knew that inversion has been used by other men than Dr Chisolm, and he himself has used it successfully in two cases in which he was the administrator Ob viously, also, it is impossible for a writer to search such inaccessible literature as State Society Transac tions for possibly existing papers The editorial was not written to tell something actually new, but to call attention to a method that has given good results in the hands of a surgeon of vast experience—En]

RUPTURE OF FUNIS

Dear Ser -On April 4th I was called to see Martha Brown (col'd), who had given birth to ten children. She had been in labor for about forts The head had been born about four hours before I saw her, and with the uterus most powerfully contracting failed to make any further

DR OLIVER WENDELL HOLMES has presented his medical library to the Boston Medical Library Association

around the neck, the epidermis removed from the Medical Inspector to the State Board of Health By gentle mangreater part of the face and neck ipulations and traction I very soon succeeded in delivering the child and found the funis detached from the umbilicus and greatly diminished in size The length was about normal I found the placenta partially attached to the fundus with hour-glass contraction

The fœtus, from the statement of the woman, must have been dead for more than a week as she received a fall from a fence and had felt no movement since Antiseptic precautions were strictly enjoined, and she is now doing well, having had for a day or two a slight rise of temperature

Rupture of the funts with the mother in the horizontal position, with normal length of cord (as in this case) has been reported in only two cases. One by Spath (fœtus macerated) and one by Dupuy these Budin (Paris) adds two cases

B A DUNCAN, M D

West Point, Miss, April 10, 1888

STATE MEDICINE.

STATE SANITARY CONVENTION

At Lewisburg, Union County, Pa To be held under the auspices of the State Board of Health, Thursday and Friday, May 17 and 18, 1888

PRELIMINARY ANNOUNCEMENT

(Subject to amendment)

FIRST DAY

Opening Address, by His Excellency, the Governor of Pennsylvania

Address of Welcome, by D J Hill, LL D, Presi

dent of Bucknell University

"The Prevention of Contagious Ophthalmia," Dr P N K Schwenk, of Philadelphia

"Diseased Meats and the Prevention of Trichinosis," Dr G W Furey, of Sunbury, Pa.

"The Water Supply of Lewisburg," Prof W G Owens, Bucknell University

EVENING SESSION

Annual Address, Hon S T Dans, M D, Lancas

ter, Pa
"Cremation as a means of Disposal of the Dead," Dr B F Hyatt, of Lewisburg, Pa

SECOND DAY -9 A M

"Small pox in Country Places," Dr Fetterolf, of Mazeppa, Pa

"Hygiene of the Teeth," Dr H Gerhart, of Lewis-

"Insanity Among Women," Alice Bennett, M D, Resident Physician, State Hospital for the Insane, Noiristown, Pa

M D, Sec'y of the State Board of Health

advance I found the child dead, with the cord Atkinson, Sec'y Penna State Medical Society, and

AFTERNOON SESSION

"School Hygiene," Dr G G Groff, of Lewisburg, member of the State Board of Health

"Household Hygiene," Prof Frances Emily White, Women's Medical College, Philadelphia, Pa

"How Germs Cause Disease," Dr V C Vaughan, of Michigan University

"The Drainage of Lewisburg," Mr S D Bates, of Lewisburg, Pa

EVENING SESSION

Illustrated Lecture, Dr Edwards, of the State Board of Health

Papers are also expected from Dr J H Kennedy, Shamokin, Pa, Dr A Schultz, Superintendent of the State Hospital for the Insane, Danville, Pa, and other distinguished scientific men

It will be observed that while distinguished sanitarians from a distance will take part in the proceedings, the aim has been to make the latter, to a considerable extent, of practical use to the citizens of Lewisburg and its neighbors, and to enlist them in the study of its sanitary problems For this reason they will be of great interest to all residents in small towns and rural districts, the conditions of which are necessarily very similar The Convention will be presided over by the Hon S T Davis, M D, member of the State Legislature, of Lancaster, Pa

A more definite programme will be issued later George G Groff, M D, Benjamin Lee, M D, Sec'y, Committee

NECROLOGY.

CALVIN ELLIS

Calvin Ellis, M D, was born in Boston, August 15, 1826, and died on December 14, 1883 a lineal descendant, in the seventh generation, of a farmer named Ellis who with some of his fellowtownsmen emigrated to New England in 1634 from old Dedham, County of Essex, England Dr Ellis was fitted for college at the Chauncey Hall school in Boston, and entered Harvard in 1842 His classmates remember him as a modest, genial companion, active in athletic sports, and ranking so as to secure Dr Ellis used to say of a commencement part himself that he played in college and "first awoke to to the full meaning of life when he began the study of medicine" He entered the Harvard Medical School in 1846, and immediately won the attention of his teachers by his diligence and marked pro-Appointed in 1849 as resident pupil in the ficiency Massachusetts General Hospital he was noted as an assistant who carried out orders promptly and implicitly After taking his medical degree, in 1850, he "Samtary Protective Associations," Benj Lee, spent two years in the French and German hospitals, making a special study of clinical medicine, morbid "Sanitary Shortcomings of Lewisburg," Dr W B anatomy and pathology On returning to Boston he

was chosen as Assistant in Pathology to Prof J B S Jackson, and soon became Admitting Physician and Pathologist at the Massachusetts General Hospital In 1863 he was made Assistant Professor of Theory and Practice of Medicine in the Harvard school, and in 1865 was appointed Adjunct Professor of Clinical Medicine Two years later he attained to the Chair of Professor of Clinical Medicine on the resignation of Prof II J Bowditch Still later, Dr Ellis was chosen Dean of the Harvard Medical School, in which capacity he everted a powerful influence upon the history of that school

Such, in brief, is the outline of Dr Ellis' official In appearance he was a quiet, modest man, with a square jaw and firmly-closed mouth, but with a kindly, genial eye His bearing was dignified and possessed that element of personal reserve which friend repelled undue intimacy but had no tinge of coldness about it His influence upon students was in the highest degree beneficial, for they constantly felt the force of his sterling character. He was a zealous champion of the dignity and honor of his profession and never allowed its standard to be lowered without instant challenge In his intercourse with students he was democratic and he was quick to recognize! and encourage any gleams of ability which they might show. We remember the pleasure which lighted his face at one time when he was assured by a recent graduate that he had won not only the respect but the personal love of his pupils

Dr Ellis was not a prolific or constant writer, but he contributed a number of valuable articles to various journals, and during his long illness he began a work upon Symptomatology in which he strove to embody his ideas of the proper method for clinical The two chief accomplishments of his life are associated with his Deanship and Professorship As Dean of the Harvard Medical School he labored with all the energy of his vigorous nature to organize and push forward the new departure by which the school was converted from an association of disjointed lectureships into a university system of graded In this work he was opposed by the conservatism of some of the older men who failed to grasp the true significance of the movement, but Dr Ellis' energy was unquenchable and he lived to declare that all his plans regarding the school had been a popular beverage He never narrowed his inter carried out to a successful issue The men who worked with him testify to-day to the encouragement which he gave them and to the unswerving faith which he had in their ultimate success

He was a warm supporter of medical organizations and joined the American Medical Association in 1853, attended meetings in 1855 and 1865

The other fruition of his life work stands to day as his monument in the Harvard method of clinical instruction. Despising cheap exhibition of expertism and "snap" diagnosis, Dr. Ellis insisted upon a rigorous method of differential analysis in every case which came before him and his classes. No matter how simple the case or how obvious the diagnosis, he compelled his students to give their reasons for their opinions, and to defend them against adverse criticism. Such a laborious process of eliminative.

diagnosis sometimes seemed finical to superficial observers, but hundreds of young practitioners to day gladly testify to the benefits which they enjoy as the result of the exacting precision of his methods

Dr Ellis was an enthusiast in the best sense of the term, and he ardently loved his profession, and throughout the suffering and feebleness of his long sickness, one needed only to mention the subject of clinical instruction to arrouse in him all his old time fervor. The closing hours of his life were in har mony with his whole career. He diagnosed his all ment as acute peritonitis from the perforation of a duodenal ulcer, and as he watched the steady ap proach of death, his mind was only intent upon softening for others the sorrow of separation. He was a noble example of true manhood and a lovable friend.

HENRY LYMAN SABIN

Henry Lyman Sabin, M D, of Williamstown, Mass, a son of Jesse Sabin and Esther Bulkley, was born at Williamstown, Mass, May 29, 1801, died at his residence February 24, 1884 At an early age he was sent to Lenox Academy, and subsequently en tered Williams College, where he was graduated at the age of 19 He taught school after he lest col lege, and studied medicine at Chatham, N Y He attended Lectures at the Pittsfield Medical School and at New York After completing his medical education he returned to Williamstown, where he commenced practice, and continued for over fifty During this period he endeared himself to the people of his native town, and no man ever lived in the community who was more beloved No man knew more intimately and sympathetically the lives of the people among whom he practiced than Dr He shared in their joys, sorrows, hopes, and Sabın Outside of his profession Dr Sabin associations His religion assumed his full share of public duties was the old-fashion, genuine New England article, and for just half a century he was deacon of the Congregational church When abolitionism was a reproach, Dr Sabin took it up with unselfishness, made his house a centre for its advocates, and he preached temperance when New England rum was ests within his immediate limits, but kept abreast of the great popular movements outside He early be came a Republican, was sent to the lower branch of the Legislature, served with credit in the Senate of In 1850 1857, and was prominent in county affairs he was President of the Massachusetts Medical So ciety, he was for many years a trustee and also med ical examiner of the Northampton Lunatic Hospital For more than thirty-five years he was one of the board of trustees of Williams College, having as sumed the office in 1838, about the time Mark Hop kins became president Dr Sabin enjoyed the offi cial association and was cordially esteemed by his associates of the board, among whom was for many years his classmate, the Hon E C Benedict, of He joined the American Medical Association in

a finer vein of natural eloquence than appeared in Or Sabin on many public occasions He was admirable as an occas onal extempore speaker, shining in after dinner efforts, when the inspiration of warm A Practical Treatise on Disfases of the Skin feeling was guided by nice native tact A brilliant and touching example of this power that never left the doctor was shown at the grave of his wife event was peculiarly sad, for she was buried on their golden wedding day, and preparations had been made for celebrating that anniversary body was lowered to its rest, Dr Sabin thanked his that illuminated the formalities of Puritan burial The home thus broken had been the centre of a refined and gracious hospitality, and in it the members of the County Medical Society had been bidden to celebrate the golden wedding of the local father of their profession

Dr Sabin was bound up in his household, and carefully cherished all family associations Few men, indeed, have ever been more widely loved or better deserved the general respect Dr Sabin was twice married, his first wife, Lucy Whitman, survived only about a year He subsequently married Abby, daughter of Nathan Benjamin, of Catskill, N Y As the issue of this marriage there are now five chil Nathan Henry and Charles, and three daughters Dr Sabin survived his second wife only Dr B H Paul discussed this subject in a paper

BOOK REVIEWS.

THE YEAR-BOOK OF TREATMENT FOR 1887 ical Review for Practitioners of Medicine and Sur-8vo, pp 336 Philadelphia Lea Brothers & Co Chicago A C McClurg & Co

This is a very good compendium of the changes that have occurred in the use of medicine during the known, and extended comment is hardly necessary It will be found exceedingly useful by those who wish in collected form an abstract of the therapeutic literature of the year Each department is ably edited by the following collaborators the Heart and Circulation by J M Bruce, of the Lungs and Organs of Respiration by R Douglas Powell, of the Nervous System by James Ross, of ert Maguire, Anemic and Allied Conditions by Sidney Coupland, Medical Diseases of Children by J F Goodhart, Continued Fevers by Sidney Phillips, General Surgery by F Treves, Orthopedic Surgery by W J Walsham, Surgical Diseases of Children by Edmund Ourus, Genito unnary System by Reginald Harrison, Venereal Diseases by Alfred Cooper, Diseases of Women, D B Hert, Midwifery, G E Hermike, Skin, Malcolm Morris, Eye, Henry Pownal, Dr R G Eccles, of Brooklyn gives an account of his

Probably no citizen of his county possessed er, Ear, G P Field, Throat and Nose, P McBride, and Summary of Therapeutics of the Year by W G

> By John V Shoemaker, AM, MD, Professor of Skin and Venereal Diseases in the Medico-Chirurgical College and Hospital of Philadelphia With colored plates and other illustrations pp viii, 633 New York D Appleton & Co Chicago A C McClurg & Co

This book has an advantage for the general neighbors of half a century for their kindness in reader over most works on diseases of the skin, in words of simple pathos It was a touch of nature that the new dermatological technical words and phrases are dispensed with as much as possible with a light as clear and tender as a gleam of sun- The consideration of the different diseases of the skin is preceded by some general considerations on anatomy, physiology, symptomatology, diagnosis, pathology, etiology, treatment, and prognosis treatment recommended for different diseases is such as almost any practitioner may carry out Half a hundred pages of formulary, and a good index, complete the book

MISCELLANEOUS.

COCAINE ADULTERATIONS AND IMPURITIES -At the meet ing of the Pharmaceutical Society of London, on March 14,

Samples of the hydrochlorate of cocaine may be classed as crystalline and amorphous, and it is well to note that the author of the paper doubted whether the salt in a pure state ever as sumed the amorphous condition. In fact, salts which are crystallizable with difficulty are in all cases mixtures, in various proportions, of cocame salts with other salts of a different na ture The test of purity, based on the more ready solubility of the non crystallizable portion of the salt in chloroform, is not altogether reliable, and the weight of the crystals obtainable on the neutralization of an aqueous solution by ammonia is stated to be preferable. Some investigators professed to have identified an impurity, which they called "hygrin," the presence of which accounted for the difficulty with which certain specimens. The series of which this is a volume is well as "amorphous cocaine" is not infrequently present, and admits of identification. Its hydrochloride is the usual impurity. It are crystallized This substance, however, Dr Paul considers is of a pale yellow color, a bitter taste, and of feeble arrest their properties. It has an alkaline reaction, and is propertied. thetic properties It has an alkaline reaction, and is sparingly soluble in water, though freely so in alcohol and ether, differing in this respect from the pure salt A dilute solution becomes Diseases of milky on the addition of ammonia, and remains so ous solution of this neutral hydrochloride becomes acid on boiling, and this accounts for the tendency of solutions of co came to become acid. Cocame itself readily undergoes decompo the Stomach, Intestines, etc., Sir Dyce Duckworth and Robert Maguire, of the Kidneys, Diabetes, etc., by Chas H Ralfe. Rheumatism and Gout by Rob. itself should be dealt with and not the hydrocal wasteful because of its extreme solubility. It would appear from these results that the quality of cocaine hydrochloride varies very much. In fact, as Dr Paul observed, the salt is makers and at a price far too low to ensure its purity. The makers who produce a good salt are heavily handicapped in the compe tition with others who supply an inferior article at a low price -British Medical Journal, March 31, 1888

analysis of a nostrum known as "Scotch Oats Essence" He declares that the preparation is about one third alcohol, and that each ounce of it contains nearly 12 gr of morphine, not-withstanding the fact that it is "pledged to destroy the mor phine craving and 'free the victim from his terrible bondage '"

Commenting on the matter, our contemporary sayseditorially "For many years outs have enjoyed an excellent reputation as an article of food. There has been a run, so to speak, on the out idea, and the bowl of parridge is systematically eaten, not so much, perhaps, from strictly hygienic reasoning as to its diet value as from a notion that it is a sort of special tonic or I rom this pleasant idea of a food that serves as a medicine in ordinary cases, the transition is easy to a belief in the efficies of a medicine derived from food when the case If the ont grains are good in ordi becomes extraordinary harry cases to prevent disease, why should not their 'essence' be potent as a restorer when disease has already made a begin ning? It is not difficult to develop so taking an idea, and an exance or extract of oats has been more or less talked of as a therapeutic novelty by a certain school of practitioners. With the value of such a preparation, or the want of it, we have nothing to do at present Our concern is with another utiliza tion of the out iden. For some time past public attention has been called by persistent advertising to a nostrum named 'Scotch Oats Lesence' Its extravagant claims have at last secured for it scientific attention, with a result that is most alarm-From the report of an analysis of this essence by Dr Eccles, which appears in another part of the Circ ilar, it will be seen that the inventor is possessed of more than common inge nuity, but ingenuity, unfortunately, of a most diabolical char Under the guise of a preparation which, from its name, might be expected to be nothing worse than a harmless humbug, he is furnishing an insidious poison. With a refinement of cru he is furnishing an insidious poison elty he lays a trap for the unwary, and under the bait of oats places the bane of opium. The dissemination of such a vile concoction is a manifest menace to the public health, and natu rally the question at once arises. Have we no law which will prevent such attacks on the people? Whether our present sanitary regulations are sufficient for the purpose is for the author-If they are not, the sooner we have stricter ities to determine If they are not, the sooner we have stricter ones the better Meanwhile, the only immediate protection the public can have is from the pharmacist He ought to be able to easily confirm the analysis of Dr Eccles, which, we might add, has already been verified by another prominent chemist, and, knowing the character of the 'Scotch Oats Essence,' it will be his duty to inform any intending purchaser of its real and dangerous nature "—N Y Med Journal, April 7, 1888

THE DUTY ON MEDICAL SUPPLIES —At the regular meeting of the Chicago Medical Society, February 6, 1888, the following resolutions were adopted, in response to the previous action of the Georgia State Medical Society, on the same

WHEREAS, A feeling of humanity suggests that all medical subject and surgical supplies, instruments, and appliances, and all for eign bound volumes upon medical and surgical subjects, includ ing those used in the diagnosis, as well as treatment of diseases, should be furnished to those needing them at the lowest possible

Resolved, That the Chicago Medical Society urge upon Con gress, that in the cruse of humanity the import duty should be removed from all medicines, medical and surgical appliances, and from every thing used in the treatment or diagnosis of

Resolved, That the Secretary of this Society transmit a copy of the foregoing preamble and resolutions to the Congressional Committee on ways and means, and to our Senators and Repre

sentatives ?

THE FIFTH ANNUAL MEETING OF THE CONFERENCE OF STATE BOARDS OF HEALTH, will be held at the Grand Hotel, Cincinnati, on Friday, May 4, preceding the Annual Meeting of the American Medical Association The Meeting will be of the American Medical Association Several very important questions called to order at 7 30 P M are proposed for discussion

THE GABRIELE BELLION PRIZE of the Academy of Sciences of Paris will be awarded annually to the one writing the best work on or making the most useful discovery in human sanita tion, or for the advancement of man

DEATH OF DR C R AGNEW -After the publication of the editorial page of this issue containing a notice of the dangerous illness of Dr Agnew, the telegraph brought the sad news of his death last Wedneesday afternoon. A notice of his life and work will appear next week

DR LEOPOID VON HOLST, for many years one of the editors of the St Petersberger medicirische Wochenschrift, died recently of pyremin

DR WM T LUSK, of New York, has been elected Corresponding Member of the Academie de Médecine de Paris, Surgical Section

QUA PROSUNT OMNIBUS -A Wisconsin paper says that a farmer in Georgia made \$100 off an acre planted in watermelons, and that a physician in the neighborhood made \$200 off the

PEPPER'S SYSTEM OF MEDICINE is shortly to appear in

AN ELEGANT PREPARATION—It is said that William R Warner & Co, recently had on exhibition in their window, 1228 Market St, Philadelphia, a pure white crystaline mass of caffeine, weighing 200 pounds, the product of ten tons of coffee The firm uses it in the preparation of their granular bromo soda

THE CHICAGO MEDICAL SOCIET: at its annual meeting on the 2d inst, elected James H Etheridge, President, and re elected Frank Billings, Secretary

THE MEXICAN GOVERNMENT has applied to the Health De partment of Chicago for full information regarding the actual working of the Department

CARPET-BEATING IN THE OPEN AIR has been forbidden by the Conseil de Salubrité, of Paris, they must be beaten in closed rooms, and the dust subsequently disinfected

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM APRIL 7, 1888, TO APRIL 13 1888

Capt Geo E Bushnell, Asst Surgeon, from Ft Preble, Me, to Camp Pilot Butte, Wyo

First Lieut Wm Stephenson, Asst Surgeon, from Camp Pilot

Butte, Wyo, to Ft Verde, Ariz
First Lieut E A Mearns, Asst Surgeon, from Ft Verde,
Ariz, to Ft Snelling, Minn
Ariz, to Ft Snelling, Minn
Ariz State of the State of the State of the Snelling Ariz

Ariz, to Ft Snelling, Minn
First Lieut Wm S Knudler, Asst Surgeon, from Ft Snell
ing, Minn, to West Point, N Y
First Lieut W C Borden, Asst Surgeon, from Ft Douglas,
M T, to San Antonio, Tex
First Lieut G L Edie, Asst Surgeon, from San Antonio,
Tex, to Ft Douglas, M T S O 79, A G O, April 6,
1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS
OF THE U S NAVY, DURING THE WEEK ENDING
APRIL 14 1888

A Surgeon Henry F Percy, from Naval Academy and to Hospital, Washington, D C
A Surgeon M H Crawford, from Hospital, Washington D C, and wait orders

Fig. Commission duty and special largeon T M Flint from Fish Commission duty and special

Surgeon J M Flint, from Fish Commission duty and special duty at Smithsonian Institution

Surgeon R C Persons, to duty in charge of Army and Navy

Hospital, Hot Springs, Ark
Asst Surgeon E P Stone, from further treatment and to duty

Medical Director David Kindleberger, from Hospital, Wash

Medical Inspector A A Hoehling, to Naval Hospital, Wash

A Surgeon G E H Harmon, to duty at Naval Academy, ington, D, C Annapolis, Md

CORRIGENDUM

The name and address of the Secretary of the Section on Medical Jurisprudence are Charles B Belt, Boston, Mass His address has been incorrectly printed as Suffolk, Iowa His address has

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

PUBLISHED WEEKLY

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CHICAGO, APRIL 28, 1888

No 17

ORIGINAL ARTICLES

DRESS OF WOMEN IN ITS RELATION TO THE ETI-OLOGY AND TREATMENT OF PELVIC DISEASE

Read before the Gynacological Society of Boston, December 15, 1887,

BY HELEN L BETTS, M D, OF BOSTON MASS

There are certain conditions of degeneracy that come to prevail in countries and among people, conditions are effected are not sudden nor forced They creep on gradually, in apparently legitimate ways, and many generations may slip away before some sage thinkers, more observant than the rest, or whose individual interests are more closely touched, throat of the dearest interests of home and country And these results do not come of malicious intent Ignorance of relation of cause and effect, and lack of thought, are often as powerful for evil as deep results now seen in sections of country which depended upon the once heavily timbered uplands beyond for their moisture and streams The pioneer learned too late that the pine and cedars were the gentle persuaders of the rain, and so the mainspring of agricultural prosperity, and now millions of money and years of planting cannot bring back this tremendous rain factor, or the stalwart beauty that was ignorantly sacrificed

This is not an inapt illustration of the vital harm that woman is doing to day to herself and posterity by her unhealthful dress It strikes a paralyzing blow at the root of vitality, beauty and usefulness

somewhere in woman's environment, which tends to degeneracy Perhaps the index to woman's physical status can be best obtained by noting the proportion of medical literature devoted to woman's diseases There are Systems of Gynecology, American and Foreign, which in themselves make whole libraries Ginecologists and gynecological societies are multiplying in every section of the land Where so

ing as the male, and careful study shows there is nothing lacking in woman's anatomical structure which prevents her from being vigorous or even powerful

But the fact remains that women, as a rule, are delicate, with little power of endurance They bear with difficulty one, two, or three children, then are faded and nervous, and finally drop into the long list of patients that have uterine disease or nervous prostration, or, if they have neither of these, they think they have, which indicates quite as unsound a conwhich strike at the root of vitality and therefore of dition of body and mind. Why should they not beauty and usefulness The changes by which such grow hale and hearty with the years, and with their husbands and brothers? It is not fair to say that any one factor effects all this wrong Much can be said of early crowding at school, irregular meals of indigestible food, late hours, imprudence at the menstrual period, untrue husbands, and fast living genopen wide eyes to find a relentless hand is upon the erally, but if woman brought to life's battle a properly developed physique, all these conditions combined could hardly effect such complete wrecks as often drag themselves into the office of the specialist Indeed, from a robust body, most of these blighting plotted mischief This is evident in the damaging influences would rebound, leaving it still symmetrical and unmarred No vigorous girl would be overtaxed by our ordinary school duties Wholesome tired ness would send her early to bed, a healthy appetite would find no satisfaction in caramels, limes, croquettes, and nondescript entrees at all hours woman with a sound mind in a sound body would be too sufficient to herself to make an alliance with one who lacked truth and honor A healthy, positive nature would find nothing satisfying in hot-house society life where social evil generates and thrives

Still, acknowledging these other unwise conditions, let us take this one factor-dress-and see what its physiological, or, rather, pathological bearings are We need not look back beyond the observation In early life girls are as vigorous and healthy as boys, and work of to day, to know there is a radical wrong but, as a rule, they are taught in-door sports When they should be romping and climbing in the open air, developing bone and muscle with which to meet the needs of mature life, they are keeping tiers clean, nursing dolls and being taught to be lady-like!

But, provided girls are allowed and taught climbing, running, ball and tennis, they can obtain but a small part of the good they might gain, because their much remedy is needed, there must be great disor-der. Is this a necessary condition? Was woman and is scolded for being a romp. Before a boy is born to my alidism? With the lower mammalia this six years old he is relieved of skirts, and the boy's is not so The female is quite as hardy and endur- real joy in his first pantaloons is not simply pride in

being dressed like a man, it is a natural, happy outburst at being fice Now he can run, leap, turn somersaults, stand on his head There is nothing to catch, chase or hinder His close garments are a part of himself No wonder the boy in his first pantaloons is exultant

comparative ease, if she cannot climb, but now, the lengthening of her skirts increases her bondage Just as every line and muscle is rounding with nascent strength and beauty, when growth is giving gencrously to the most active members and development is fast widening or limiting the relative power and skill of each system in the organism, what is every girl taught to do? She decorously confines the limbs by heavy clinging drapery which impedes every movement, each step is checked by the muffled friction of soft, pliant skirts that sway and wrap about the calves and ankles and hold her back from rapid walking, and make running exceedingly difficult The result is that all exercise involving rapid and extended movement of the thighs is gradually abandoned the next generation The pelvic bones, ligaments, muscles and fascia are in process of development, and this is a momentous period It matters notcustom and fashion say "Long skirts," so the limbs are pinioned Now what becomes of the obturators, the transversates, the levators, and sphincters? Their proper development cannot come, save from vigorous action, daily systematic, energetic exercise, which brings into play the back, thighs and abdom-No one who has dissected a pelvis, inal muscles or studied those magnificent plates of Savage, can doubt that woman is fully equipped for rapid, easy and safe parturition

Then why does woman dread childbirth, as cities dread the earthquake? Because she knows that in the last dread throes the foundations are often literally torn away And why? Simply because all those pelvic belongings are allowed in early life to lie dormant and undeveloped The forces that nature has appointed as a reserve corps, at both flanks and rear, to lengthen and strengthen the permeum in the last minutes of extreme pressure and tension, are unused use, congestion and unskilled, so they do what untrained members usually do when brought to the crucial test fail, and the perineum is sacrificed Where lies the So long as woman wears long, clinging skirts she cannot, as a rule, reach that point in physical development that makes child-bearing safe and desirable her little girl was learning slang from playing with sions, excessive and altered secretions, naturally boys. She ran in crying, "Mama, Bab stumped me arise from prolonged compression with displacement arise from prolonged compression with displacement to shin up the piazza post, and I did it, too" My advice was, "Forgive the slang provided she shins probable that the muscular fibres of the cervix ma), up the post successfully " It is this lack of bodily during a long-continued congestion, lose their resil freedom which makes woman fragile, she may have lency and elasticity, become fragile, and so, easily no disease, she may call herself well, but we have torn during the prolonged and violent dilatation of Health and Health or Whollie as the old Green have Health and Health, or Wholth, as the old Saxon has parturition? Would not dropsy and apoplexs of Health may simply allow its possessor to follow the ovarian follicles be a natural result of prolonged living carefully and guarding against extravagant which, together with the uterus, share in the general which, together with the uterus, share in the general outlay, the body may answer all moderate require- compression and stasis of blood? Do not the hi-

ments without sickness or pain Life is a calm, un impassioned, monotonous existence Health maj make life a glad song of joy, every faculty is tense and keen, simple existence is a luxury Eating, drinking, sleeping are physical delights, and breath ing is literally a constant inspiration This is as was Up to ten or twelve years a girl can walk with intended and what is possible, but it can only come with exuberant, robust health Whatever checks growth and development cuts off the possibility of a vigorous physique, and also the main avenue by which the most healthful, joyous influences reach us

I have seen women in mature life whose fragile, half-developed bodies have set relentless limits to enjoyment, mental and physical They looked out as from grated prison cells upon the spontaneous, active life, which was once, but now no longer, pos sible to them

> The moving finger writes, and having writ Moves on, nor all their penitence or wit Can lure it back to cancel one half line, Or all their tears wipe out one word of it

There is another feature quite as objectionable, Now this girl is the prospective mother of while the long drapery dwarfs the body and lowers its vitality, the corset with unsupported skirts in duces actual disease The prevailing style allows all the weight of clothing below the waist to rest upon the abdomen and hips, as the point of great est projection of the viscera is higher up than the hips and more prominent, this part forms the main support, consequently, there must be compression, with displacement of the abdominal viscera and a corresponding degree of disturbance of blood supply This often gives rise to a condition and nutrition of the uterus that for a long time was covered by the term inflammation, but that has been elaborated by different authors, according to their ideas of pa thology, and now we have the engorgement of Lis pane, the irritability of Hodge and Gooch, the act ive congestion of Chapman, the passive congestion of Emmet, Kolb's formative irritation, Hewitt's abnormal nutritive activity, the areolar hyperplasia of Thomas, etc , all agree that there is abnormal cell-proliferation

We will, for clearness, adopt a term in every day What follows a long continued congestion? First, disturbed nutrition of tissue Second, altered function, and with these two condi tions, without the aid of another single cause, we have the factors of nine-tenths of the disturbance that gynecologists are called upon to treat see if this statement is too broad Congestions, dis-A mother lately complained to me that placements, flexions, glandular enlargement, ero sions, excessive and altered secretions, naturally

What of lacerations of the cervin? Is it not most By and excessive hyperæmia of the ovaries and tubes,

tological researches of to day point strongly toward the congestion theory as being the most rational on which to explain fibroid growths? Among pathologists we may speak of our country-woman, Dr Mary Putnam Jacobi, as worthy authority, and her investigations all go to show that in subinvolution venous arterial hyperæmia necessary to inflammation, we have the venous hyperæmia necessary to growth Upon this ground it has been suggested that the fre quency of fibroids in the posterior wall of the uterus may be explained, the constant pressure from the crowded rectum causing venous hyperæmia, the potent factor in fibro-genesis

However, it is not necessary to trace all uterine disease to congestion in order to make attention to dress imperative Observation with ordinary rea soning, without a knowledge of pathology, teaches that great injury must be caused by continued weight With this fact granted, it is hard to and pressure understand why it is so generally ignored in other disturbances of the organism the environment is al ways taken into account in the treatment We not only use remedies which relieve, but we remove in fluences which have brought about or which increase What results from treatment could the disorder we expect in typhoid fever even with the most ap proved remedies, with the patient breathing sewer gas day and night? Or in a case of nervous pros tration in a teacher who spends her days in an illventilated school room and her evenings in correctfried pork and buckwheats, and dined on corned permit, and in a state of intense hyperæmia beef and cabbage? Would he be a scientific surprinciples of medicine and surgery as it is to expect simply her in-door garments plications to the uterus while the patient is steadily pelvis with from four to twelve, and often twenty, pounds of pressure? If it is reasonable and scien tific to regard diet in indigestion, mental and social influences in neurasthenia, atmospheric changes in pulmonary disease, is it not quite as rational to regard the force of gravity in uterine disease? And yet it is often left entirely out of account in the matter of treatment

I will speak simply from personal knowledge lady came into my hands for retroversion with enlargement, and of course, prolapsus This condition strength in the way of applications, douches, and pessaries, but she wore the usual weight about the hips, and mode of dress she had never been at all enlightened concerning its hurtful effect

bly weighing it into the pelvis For this patient, like very many women, had lost the dorsal curve, and so the body was carried at such an angle that the whole weight of the abdomen was precipitated directly upon the pelvis

Some months ago a gentleman came to the office, congestion is the etiological factor where without the and when I saw his sad, worn face and heard his pathetic voice, my mental diagnosis was, this man has either dyspepsia or an invalid wife It proved She had been ill two years, nine months the latter in bed, but had finally convalesced to that degree that she could sit up for two hours during the day She was assured that all she needed was strength, but, as for several weeks she had been losing ground, she, with her husband, were facing, as bravely as they might, the grim fact of invalidism for an energetic wife and mother of thirty years of age illness really began with subinvolution six years be-For four years this continued, with constipation and the usual half invalid condition severe exertion during sickness in her family, she was obliged to take her bed with an acute uterine congestion, soon mucous polypoid growths appeared and a surgeon from the city was called and an operation was performed Later, the retroverted uterus was replaced with a sound, which operation was followed by prolonged hæmorrhage After nine months in bed, a naturally strong physique came to her rescue and she regained her feet But she was in constant pain in her back, head and limbs She was wakeful, and her mind easily confused and depressed ing examination papers? Could we expect brilliant The uterus was engorged, and all the pelvic organs results in gastritis with a patient who breakfasted on were crowded as low as the floor of the pelvis would

The first, clearest indication seemed to remove geon who would apply a soothing disinfectant to a the superincumbent pressure, so, as usual, I examcompound fracture of the humerus, and then leave | med her mode of dress | You will be interested from the arm unguarded to dangle loosely in the coat a professional standpoint to know what this patient sleeve? But is not this as consistent with the first wore. I examined her at her home, so she had on successful results from pessaries and depleting ap- muslin drawers, flannel and muslin underskirts, hooppushing the abdominal contents upon and into the seven bands, fourteen thicknesses were buttoned skirt and bustle, then a muslin and a dress skirt, closely about the corset, and not long before, her physician having noticed that she wore her garters about her legs, said he feared they would interfere with circulation, and advised that she should put an elastic band about the waist and fasten the stockings to this! I asked if her clothes were not oppressive She said she thought she wore very light clothing, but had noticed at night a purple crease about the A waist where the bands came about the corset, and wondered if that could keep her from gaining had first been recognized six years ago She had poor woman was waiting to get well, wondering why been under the care of a specialist from time to time she could not stand, that her limbs ached and prickled, She had had everything commendable and why she could not walk without getting so tired Neither physician nor specialist had spoken of her

Her physician had exhausted all re- the patient is virtually well, her bowels move with-Her recovers -- for now at the end of five months sources in the line of internal supports in trying to out aid, she walks, rides, goes to church, eats and raise up the large and heavy uterus, while all the sleeps like other people, directs her house, is happy time a firm pressure of several pounds was presisti- and bright, and the husband is as cheery as the wifeher recovery was brought about in the simplest man- your limbs ments without bands. She took gymnastic exercise work. Feel the clinging friction at every step. Have regularly—two or three times a day she assumed the genu-pectoral position. The medical and local treatment I consider really unimportant compared with the changes of habit This consisted in the ordinary means for restoring tonicity to the intestinal tract, with the usual uterine applications

These cases will serve as an index to an interesting experience which has convinced me that there is a reason not generally recognized, why our brothers in the profession and in the flesh pass over so lightly the subject of woman's dress in their practice Men who have won enviable places and teaching in the profession, both as authors and workers, dismiss the subject with a few lines In the "Cyclopedia of Gynecology," published lately by Wood, consisting of eight volumes, it would be hard to find one half page that could possibly be construed to refer to woman's dress and practical handbook upon "Minor Gynecology," in two hundred and fifty pages upon treatment of displacements, two single lines enjoin removing the superincumbent weight from-not the uterus, butthe pessary, that it may not be displaced He describes and gives illustrations showing over seventy different pessaries and abdominal supports which are stipation, or most usually both, and in the pressure of made from leather, cotton, kid, hard rubber, celluloid, glass, whalebone and cedar wood In speaking of abdominal supports, he advises that they be suspended from the shoulders, and gives an illustration of an apparatus made of a metallic rim which shall rest on the hips and be suspended from the shoulders, to this with the skirts, he remarks parenthetically, the abdominal support is to be attached! The picture is almost pathetic, and with a knowledge of Prof Munde's love of mechanics and skill in contriving, it is simply astonishing The situation will admit of but one explanation

"What do you think is the Patients often ask reason my physician did not tell me about my clothes?" There is but one answer Because he did not know "But why should he not know? Physicians know how women dress" Oh, yes, but he never in his own body felt the bondage Nothing teaches like No surgeon is so thoroughly aseptic as one who has seen the germs grow in the culture tube and demonstrated them under the microscope had seen with his own eyes, and knows he has an actual factor to deal with, there is nothing that would so effectually convince physicians of the im mense factor for harm that woman's dress is to women, and so to the race, as a little individual experience You need not put on a fashionable calling suit with braid and jet which would weigh all the way from ten to forty pounds, the waist of which must be put on after the bonnet and gloves, for after it is fastened This would be exthe arms are literally pinioned would then have from four to ten pounds slipped must repeat itself can we not by earnest, wise effort Take an ordinary working suit, snugly down over your corset, with yards of drapery raise the next cycle to a higher plane than this? outside and beneath swaying and twisting about

Go about your ordinary work, which She took off her corset, adopted under gar-involves no more active movement than woman's a hand always ready to hold your skirts from your own and others' feet as you go up and down stairs. get in and out of your carriage Walk across Bos ton Common in a stiff breeze—this for one day only Three items I would confidently vouch for in the outcome first, most righteous, but undignified and unrestrained rage, second, rending of raiment, thin d, you would never attempt to treat a patient for dis placement, or congestion, or vesical irritation with out first working a reform in her dress

It may be said that women are used to their dress and so do not mind it "'Tis true, 'fis pity-pity'tis, tis true " The majority of women know no more of bodily freedom than the domesticated canary or parrot But the fact does not make them any more efficient or happy members of society, or fit their half-developed bodies to produce a hardy progeny In Prof Munde's very excellent Perhaps some lack of effort in this direction may be due to the fact that it is exceedingly difficult to per suade women to make radical changes in their dress They will tell you their clothes are not tight, they never lace, they can turn round in the corset Indeed their clothes are quite comfortable rather take medicine for the congestion or the con daily work, when I see that only a round half hour's talk with blackboard illustrations and full directions for the entire change of dress will effect a conversion, I have given the patient the desired bottle of medi cine, pocketed the fee, shut the office door with a groan over the hopeless condition of the patient, and let me add in self-defense, a groan over my own shift less treatment

Were this matter not one of vital moment, in view of the unwillingness of women to make the necessary change we might, with some peace of conscience, leave these miserable women and girls to their un healthful dress, treat them as so many emergency cases, whose lives are to be comforted and eked out in a superficial from-hand-to mouth way But this is not a side issue No fact in Biology stands better proved than this, that change of function is followed by change of structure With diminished exercise comes diminished size and development, and the dwindling of a little-used part has by inheritance been more and more marked in successive generations opinion, in his later life, Mr Darwin was careful to Although the especial fac keep constantly in view tor of natural selection which he first recognized still held its ground as playing an immense part in organic evolution, he repeatedly stated that great weight must be attributed to the inherited effects of use and disuse with respect to both mind and body If these are facts, and they stand proved every day to those who observe and think, what sort of a race will the half developed, half-furnished pelves of to day bring forth? Is it inevitable that the children of culture and intellect be always puny and sterile? If history

The matter of women's dress is one in which pub

brothers, their lovers, and their husbands could wield a mighty influence for good in this work if they but realized its importance. As man has a more extended field for observation, woman has come naturally to regard his opinions with deference

Women physicians, especially, work here at a disadvance ranks of thought, any suggestion in the way type of radical dress is brandished and they say, study medicine?"

Woman does not like to be laughed at and called discomfort in her body than to be wounded in her heart by those whom she loves This seems a plight -certainly we are warranted in using the word, for never was mortal more plicated, enfeebled, almost inextricably entangled—this seems a plight in which you, my brothers, have a work to accomplish, which for my inspection no one else can do Will you do it?

LEFT LAPAROTOMY FOLLOWED (A WEEK LATER) BY RIGHT LAPAROTOMY FOR SUPPURATIVE PERITONITIS.

Consequent upon Bulimia, Fæcal Impaction, Perityphlitis, and Septicæmia. Recovery on the Use of Arsenic in Septicæmia

Read before the District of Columbia Medical Society, Janu ars 11 1888

BY J F HARTIGAN, M D,

PROFESSOR OF DISEASES OF CHILDREN MEDICAL DEPARTMENT GEORGE TOWN UNIVERSITY ONE OF THE SURGEO'S TO PROVIDE CE HOSPITAL ETC. WASHINGTO. D.C.

I was called on January 24, 1887, to see O B, æt rr, the youngest of six children The mother said he had been complaining for several days of a "stuffy" feeling and headache, and not being in his usual spirits, she thought he needed medicine Having found upon examination no distinctive symptoms, I prescribed on general principles a brisk cathartic, and grapple with In a few days the patient began to and found that the medicine had acted once, but he dermic injections of morphia were the rule pulse accelerated, temperature 100°, and there was tongue was dry and furred tenderness over the ileo crecal valve, but no pain, the mischief seeming to point to impacted faeces

he opinion has a powerful influence, especially the that night with an equal quantity of bicarbonate opinion of men Women dress not for their own soda This had the desired effect, so that next morncomfort, or the health of posterity, but to please their ing the doctor discontinued his attendance supposing Men that the difficulty had been overcome

For several days subsequently there was no appreciable change in the patient, he had no inclination to leave his bed, the amount of fæcal matter that continued to pass being something extraordinary Contrary to directions he had been given such food With most women, save those in the as he craved, which was generally of a gross kind, and I also learned for the first time that before his of hygiene in dress is immediately branded as Dress illness he was in the habit of buying a pound of sugar Reform, and straightway the masculine, pantaloon at a time and eating it in the store, or he would go to the butcher's and purchase a like quantity of bo-"What else could we expect from one who would logna sausage or hogshead cheese, although he had plenty to eat at home, in fact it was evident that we had to deal with an aggravated case of bulimia and strong minded She would rather suffer pain and its sequelæ As I have just stated, through an overindulgent mother and a too-willing servant, our efforts were thwarted in abating resulting perityphlitis nas bewildered at the copious evacuations and the daily exhibition that confronted me, for it seemed to have been next to a religious duty to save everything

The first alarming symptom appeared the third week of his illness, when one morning I found him pulseless at the wrist, skin pale and covered with a cold clammy sweat, eyes dull, breathing imperceptible and gasping This state of collapse had taken place only an hour before my arrival, and it did not need any intimation to convince the mother-who was the only person present—that her boy was sink-Having hurriedly given hypoderms of whisky and ordered bottles of hot-water, and mustard to the extremities, I drove off for Dr Bulkley On returning there was no change, and it seemed that further efforts must be futile. The doctor agreed with me that an abscess had burst into the abdominal cavity, which accounted for the suddenness of the attack, and that apparently the patient had not many hours to live The treatment was continued, however, and towards evening we were rewarded by commencing The pulse gradually returned to the wrist, reaction the slin became warm and the breathing more regular, the familiar cry for something to eat was again heard

But now there was a formidable complication to gave instructions to inform me in a day or two should lose flesh rapidly, although his digestion had not he not be better I was called again on the 26th, failed, he became restless and wakeful, so that hypocontinued dull and stupid, not caring to leave his face presented an anxious look, occasionally as His skin was now hot and dry, tongue furred, night approached he would become delinous, his Eight-drop doses of Fowler's solution were now ordered, alternated with Repeated doses of calomel, colocynth, and aloes milk punch and other appropriate nourishment 4 grains ferri et quinia citras three time daily, with were ordered, followed by copious injections of cas- About the seventh week the parotid glands began to tor-oil and turpentine emulsions, without results A enlarge, and fluctuation being evident in three or week from the first time I saw him, having rontem-four days, I made free incisions, under cocaine, just plated the use of the long tube, Dr I W Bulkles was behind the lobes of both ears, making counter-incalled in, but upon consultation it was deemed advis- cisions below the angles of the inferior maxillæ able before resorting to it to try once more a large Having evacuated the contents, amounting to about dose of calomel, and accordingly 6 grams were given twelve ounces of putrid-smelling pus, I inserted

dramage-tubes through upper and lower wounds, and congested, the pulse could not be detected and the upon their removal within a week all traces of dis- breathing was hardly perceptible. While the ether charge had disappeared—the face resuming its wonted shape instead of the full moon aspect it had previously borne

For a week subsequently the lad became brighter, a decided mitigation in the symptoms followed, and having been thoroughly cleansed, the edges of the there was reasonable ground for belief that the poison wound including the peritoneum were drawn together was being rapidly eliminated But the same difficulty continued with his food, protest or argument did while reaction was established, the skin became warm, not avail-even a threat to abandon the case-there and the pulse and breathing stronger On visiting was always some one to bribe, or bring him a banana my patient later in the evening his condition con or pancake, or whatever there was in the kitchen, and the usual message would come for me at night enough to eat since he saw me-only one chop and to give him a corrective, or hypodermic of morphia and atropia to stem the resulting mischief Even the collapse-which I argued was brought about in this way—did not deter the servant from continuing her pig-headed course in response to his perpetual usual hypodermic I left him for the night cravings

Towards the end of March another crisis occurred, the temperature rose to 103°, pulse was small and balsam of Peru and iodoform to be applied to the fluttering, skin dry, face ashy, with an anxious, drawn | bedsore, instead of flaxseed poulticing, which threat look, urine scanty, tongue brown, thick sordes about ened sloughing Fowler's solution and the citrate of the teeth In a few days the body shrunk remarkably; and an extensive bed-sore appeared, through the patient steadily gained ground, the wound dis which the posterior superior spinous processes of ilin charged healthy pus abundantly, the emaciated limbs and middle segment of the sacrum almost extruded Another development about this time, which contributed to the rapid emaciation, was the vomiting of green fluid streaked with mucus, the amount per rence of dangerous symptoms, the temperature again day for two weeks averaged one pint, which was reserved for my inspection as religiously as the enormous quantities of fæcal matter passed in the first weeks of his illness required to eject this fluid, he would call feebly or point for his basin, and apparently would vomit with to a second operation being removed by the success the same ease that a suckling infant sometime regur- of the first, the next day, with Drs Bulkley and gitates its milk

When the case appeared hopeless and all our efforts to save the patient were in vain, my attention was attracted to a suspicious fulness in the left iliac region Dr Bulkley examined it with me next morning, and both agreed that it was pus The propriety of laparotomy at once suggested itself Was it advis able to do it in the face of almost certain dissolution? The mother, having been approached on the subject, left the matter with me, notwithstanding the hue and cry raised by some of the relatives and neighbors that it was cruel to operate on a dying child The matter was discussed by the doctor and myself, and it is only justice to him to say that he did not entirely approve it-adding that I would be condemned if the child should die on the table, as was otherwise, and having the mother's consent, I held flesh and strength, bedsore healed, the tongue became that it was an unwritten law in surgery not to let a patient die for want of an operation, so at my request the doctor consented to be present

Accordingly, the same afternoon, having administered a full dose of stimulant, Dr C J Osmun giving the ether, I made an incision three inches long over about entering the peritoneum, which was soft and establishment of surgical procedure in a condition in

was suspended and the usual artificial means nere being employed to resuscitate him I completed the operation, giving exit to more than a pint of foul This portion of the abdominal cavity smelling pus and sutured, and a drainage tube inserted In a little tinued to improve He said they had not given him a couple of rolls -and it was explained for my edi fication that it had not hurt him, notwithstanding the positive instructions that he should have nothing but milk punch and beef extract Having given the

Next morning he was bright and cheerful, after a prolonged sleep, his bowels moved freely Ordered iron and quinine were continued For several days and thorax and shrunken face began to fill up, and there was an improved appearance of the bedsore

In a week, however, all was changed by a recur rose, there was jactation, delinum, hectic, brown tongue, slight rigors, hot and dry skin On the right side of the abdomen, corresponding to the situation There seemed to be no effort in the left, was noticed another enlargement more diffuse and fluctuating The chances of objection Osmun, I made a similar incision, under ether No alarming incident occurred during the operation, which was similarly performed and which resulted in the evacuation of nearly another pint of pus, the cavity was washed out and sponged thoroughly, with antiseptic precautions, and the wound dressed after During the night all urgent the method of the first symptoms disappeared, but the boy now showed Under the judicious use of stim great exhaustion ulants, the continuance of his medicine, and greater care with his food, he gradually merged into a state of convalescence Both wounds were dressed daily, any retained matter being gently pressed out, as the discharge diminished they filled up, so that two neeks after the first operation one drainage tube was re moved, the other following a few days later

All anxiety was now over, the boy steadily gained clean, pulse and temperature normal-more than that his appetite became normal—so that about the 1st of May he was able to sit up He called at my office on the 18th of May in good health, and is to day a

strong, vigorous boy REMARKS — The foregoing case is unique in many When respects, and is offered as a contribution towards the which the patient has heretofore been abandoned to Richter suggested more than a hundred years ago that if in the abdominal cavity milk-like fluids are formed, operation is the only remedy for Whether he meant the more removal of the disease formidable one of laparotomy, or puncture by the the points of interest in my case trocar, does not appear, but it is certain that the latter method only has been employed until a comparatively recent date-modern surgeons, being dissatisfied with the results thus obtained, preferring laparotomy

The first recorded case that I can find is by Bertels in 1871, who made a 2-inch incision in the abdomen of a supposed phthisical patient, and successfully removed two wash basins full of pus Then followed Boye, Studensky, Kronlein, Selmer, Tait, Elias, Barwell, Marsh, Caselli, Schmidt, Roberts and otherspioneers who have placed this among the accepted The cases reported are prinoperations in surgery cipally for perforation or consecutive peritonitis from rupture of some portion of primæ viæ, bursting of a pyosalpinx or pelvic abscess, Mr Tait presenting by none with a history similar to my own, viz the de- it lasted, was so amazing praved appetite, impaction of fæces, perityphlitis, suppuration of the parotid glands as well as the peri-

With regard to diagnosis in these cases, it is reexperience, errors which will probably be continued and, except in rare cases, be deemed excusable have at present on hand an illustration in which there is a history of pelvic abscess of more than two years' standing, with anchylosis of hip, following a miscar-Having been sent to a hospital in this city last spring for treatment, the patient was discharged by the surgeon with the statement that the institu but hip joint disease At that time the same condition undoubtedly existed (at least in a less degree) which a month ago led to an incision by myself in the left dorsum ilu, giving exit to a large quantity of pus, followed since by discharge of fæcal matter The doctor, however, is in good company, for during the late International Congress an eminent London obstetrician saw the patient and gave directions how the anchylosed hip might be overcome, losing sight of the fact that there was pelvic abscess with fistulous communication in the rectum

The interesting question in these cases is when to operate, or when an exploratory meision should be ago vanced sentiment of the profession, in this respect, hip, presenting an erysipelatous appearance in the following terse paragraph

thoroughly with this subject, from a clinical standpoint, are ready to open the wall of the abdomen in any case where death threatens from any cause evi dently amenable to surgical procedure, or any cause which is obscure, and which can be only understood aging after the section is made. In many instances it is

The difference to the patient is, that amination recovery and cure will often follow the ante mortem examination, but recovery has never been known to follow the post-mortem examination "

Let me call attention briefly to what I consider It may first be asked why abdominal section was not made earlier in the disease, for instance, shortly after the collapse of the third week? Of course it could not have been done at the time of collapse, and, strangely enough, when reaction followed from the supposed bursting of the abscess, there were no symptoms to justify such a course, nor were there previously, as the abdomen was flat and quite tolerant of pressure I think the Society will agree with me that the fact that the boy rallied so well, and was free from pain and chills, as well as distension of the abdomen, precluded the propriety of such interference, and that if it had been done, and death had followed, ne would not have been able to present such an interesting statement this evening

It may be instructive to account for the green fluid far the largest percentage of recoveries, but I find vomited, the persistence and quantity of which, while Of the 100 or more cases consulted, going back forty years, in which the trocar was the principal agent employed in evacuating the toneum following septicæmia—besides the dietetic pus, in only two or three has this been noted as a errors during treatment, which were so exasperating symptom. There was costiveness and digestive disturbance frequently Perhaps peristals is impeded markable how often errors are made by men of large in consequence of the effusion, the antiperistaltic motion, on the other hand, being increased, thereby I produces nausea and vomiting

The last point to which I desire to call attention is the use of arsenic in septicæmia. While a subject of this disease myself from a dissection wound about fifteen years ago, I was found roaming around aimlessly, half delirious, with my right arm seemingly twice its size, glazed and tender to the touch, and tion was for the treatment of diseases peculiar to the feeling like a leaden weight. I saw Dr Schafhirt, sex, and that there was nothing the matter with her Anatomist of the Army Medical Museum, who advised Fowler's solution in 10 drop doses every 2 or 3 hours, and free stimulation Before morning the change was remarkable fever and threatening symptoms had disappeared, and I steadily gained ground, so that within three days the ædema had subsided without developing into suppuration Having had several dissection wounds since, I have always as a matter of precaution taken arsenic for about forty-eight hours, without any untoward symptoms following

I am reminded, in this connection, of a case of acute suppuration of the knee-joint, with septicæmia, admitted to Providence Hospital about two years The œdema and suppuration of the thigh and I think Dr R S Sutton reflects the ad- leg were very considerable and extended above the

The following is a synopsis of the case furnished "In short, those who have acquainted themselves me by Dr D P Hickling, the then house physician, who said that as one of a similar character had died a short time before during his service, in spite of the most active treatment, and this seeming to be the worst, the prognosis was, to say the least, discour-

"W C, æt 22, white, male, entered Providence substituting an ante mortem for a post mortem ev- Hospital January 21, 1886, giving the following his-

On the morning of January 15, while wheeling a barrow up an inclined board, he slipped and in hospital and private practice, where Fowler's so fell to the ground heavily upon his right knee, striking a stick or stubble which caused a punctured success, but I will not longer detain the Society wound of the knee He had suffered considerably since, but had not been confined to bed When Tongue coated, seen his condition was as follows skin dry and hot, with general prostration and considerable pain, redness and swelling in joint, extending to the hip A brisk cathartic was ordered, and opium at bedtime also potass nitras for fever Milk punch, quinine and tinct ferrichlor were given liberally, and opium was continued to relieve pair

"January 21, evening temperature was 102 40, pulse 106, tongue heavily furred, symptoms of great prostration, wound discharging freely, and general redness of leg and thigh with excruciating pain Hartigan made several incisions for more thorough drainage of the joint, and called a consultation for

the following day

"January 25 Morning temp 100°, pulse 100, even ing temp 101 4°, pulse 100 Prostration still great, and for constipation brisk cathartic ordered sultation decided that no advantage could accrue from any operation, and suggested continuance of the treatment, and thorough drainage of joint

"January 26 Temp (morning) 99 4°, pulse 98

Evening temp 101 6°, pulse 94
"January 27 Morning temp 99 8°, pulse 92, even ing temp 102°, pulse 102

Morning temp 988°, pulse 100, "January 28

evening temp 100 4°, pulse 100

"January 29 Morning temp 99 4°, pulse 104, evening temp 102°, pulse 94 Patient's limb has incisions, and washed daily with solution of bromine age, necovery — George B, at 38 years, was ad been thoroughly drained under ether by numerous In spite of the most stimulating treatment and nourishing diet, his general condition was critical-seemed to be getting worse every day, when Dr H ordered 12 drop doses of Fowler's solution three times daily

"January 30 Morning temp 99 6°, pulse 98, evening temp 100°, pulse 96—the lowest evening tem-

perature since admission

Morning temp 99°, pulse 98, even-"January 31 Fowler's solution ining temp 100 8°, pulse 98

creased to 20 drops three times daily

"For two or three weeks subsequently patient's condition did not vary much, except a few evenings when the temperature rose to 103°, and further drain age was necessitated Dr H made altogether sixteen incisions from time to time, averaging from 3 to 6 inches long, with drainage-tubes of different sizes intercommunicating, the pus burrowed between the sheaths of the muscles of thigh and leg close to the bones, and a strong solution of chloride of zinc was substituted for the bromine and injected through the

"After the middle of February the patient comsınuses menced steadily to improve, although occasionally there was a temporary rise of temperature mained in the hospital until the first week of April, when he was discharged cured, with a useful limb, and no anchylosis of the knee-joint "

I could mention other cases of septicæmia, both lution was the chief treatment, with almost uniform 10- or 12-drop doses every four hours are not exces sive until the temperature diminishes, or other symp toms improve, gradually reducing according to indi cations

I believe, therefore, that, in closing, I am justified in saying that in all cases of septicæmia, or wherever there is pus, free drainage and arsenic are the key notes to success

CASES OF ABDOMINAL SURGERY

1 Abscess of Liver, Incision and Dramage-Re-2 Epithelioma of Esophagus, Gascovery tiostomy-Death 3 Large Uterine Fibroid, Exploratory Incision—Recovery 4 Strangulated Hernia, Resection of Intestine-Recovery 5 Ruptured Ovarian Cyst, Ovariotomy-Death 6 Encysted Pelvic Abscess-Recovery 7 Double Ovariotomy-Recovery

Read before the Philadelphia County Medical Society, April 11, 1888

BY J M BARTON, MD, OF PHILADELPHIA

By invitation of your Board of Directors I submit some specimens, this evening, from cases of abdom inal surgery and present the following notes for your

consideration Case I - Abscess of liver Free incision and drain mitted to the medical wards of the Jefferson Medical College Hospital, July 29, under the care of my colleague, Dr Neff The patient was suffering with an immense abscess of the liver, extending the area of the percussion dulness to below the umbilicus and to the left of it At the request of Dr Neff, I removed by aspiration more than a quart of "brick dust" colored pus, with such relief that the patient was able to return to his home in the interior of the The abscess cavity rapidly refilled, and he returned to the hospital, when we decided to oper ate by the method of Dr Ransohoff, of Cincinnati Making an incision through the abdominal will, five inches in length, at the outer edge of the right rectus niuscle, permitting it to gap, fastening the edges of the wound by sutures to the liver, and when firm ad hesions had taken place, opening the liver by the galvanic knife When adhesions were found to have formed, and I attempted to divide the tissues of the liver with the galvanic knife it did not act well, at first, while white-hot, it would cut readily, but the resulting very free bleeding quickly short circuited the current and the knife became instantly cold After repeated trials it still proved so unsatisfactor) that an ordinary scalpel was substituted, with which the pus cavity was reached An attempt to check the bleeding from the margins of the incision, b) the cautery knife, was also unsuccessful, and it was only

by filling the wound with a number of rubber catheters, which happened to be at hand, that the hæmorrhage was controlled

The abscess cavity was washed out daily with various antiseptics, it gradually closed, and the patient When Dr Neff saw him the was discharged cured following December, his weight was 156 pounds, his pulse heat eighty to the minute, and he had no evi-

dence of hepatic disease

Case 2 - Epithelioma of the asophagus, gastrostomy, death - John T, et 42 years, a patient of Dr Joseph Lopez, of Philadelphia, was admitted to the Jefferson Medical College Hospital, December her house for a month 5, 1884 He had suffered with difficulty in swallowat the time of admission, he had taken no nourishlittle for the last two months emaciated with great force A bougie could be passed readily pelvis to within four inches of the cardiac orifice of the stomach, when it was suddenly arrested

I performed gastrostomy December 9, assisted by Drs S W Gross, Brinton, Pancoast, Hearn, and An incision two and a half inches long was made parallel to the margin of the ribs on the left side, and about one finger breadth from them, begin ning at the outer edge of the rectus muscle soon as the peritoneum was opened, the stomach the subsequent history of this case appeared and its identity was verified by those present, six sutures were used to bring the viscus in contact with the abdominal opening, two at each side and one at each end Each suture was made of them was carned between the muscular and mucous coats of the stomach for about one-third of carried through the abdominal walls about one-third between the menstrual periods of an inch apart with the parietal peritoneum some days later

The patient suffered no pain or other inconvenience from the operation, and had no evidences of her occupation as a school-teacher retained, he lost ground so rapidly and his exhausthe second day instead of waiting for the fourth or beginning to interfere with respiration fifth day as is customary Immediately on opening the stomach a rubber drainage tube was introduced, am anxious to have it on record, though the principal ounces of warm mill were at once given, and through this was repeated every few hours he con-

school-teacher, was sent to me by Dr James Graham in February, 1885 She had a large submucous fibroid causing the uterus to rise above the umbilicus The increase in size was first noticed one year ago She formerly had some irritability of the bladder Her menstrual periods which had now ceased The ergot which Dr usually lasted about ten days Graham had prescribed for her was continued and The hæmorrhage, however. operation not advised gradually increased until by the latter part of April, when I again saw her, she had been obliged to abandon her occupation, and been unable to leave

April 27, 1885, assisted by Drs Da Costa, Edward, ing for one year, which had gradually increased until, and Percy Graham, and Dr Koons, I made an exploratory incision in the median line, between six ment whatever into his stomach for a week, and but and seven inches in length The bladder was found He was greatly entirely above the symphysis, and in the line of the He could drink as much as three incision By pushing it downward and increasing ounces of fluid, which would be immediately ejected the incision upward, I was able to gain access to the

> The uterus was greatly and irregularly enlarged and everywhere adherent to the surrounding struc-The intestines were so firmly fastened together that we were unable to find or remove the ovaries The abdomen was closed with silk in the usual manner The patient made an uninterrupted recovery Full antiseptic precautions had been taken

There are some points of interest connected with Though previous to the operation she almost invariably bled for ten days at each menstrual epoch and at least twice between the menstrual flows, immediately after the operation the excessive bleeding ceased, and for by placing two needles upon a fine silk thread, one nearly two years she regularly menstruated but three or four days, she did not lose more than onefourth of the quantity each day that she had prior to an inch and brought out, both needles were then the operation and there was no bleeding whatever Her menstrual Traction upon these sutures periods have gradually and irregularly increased brought the walls of the stomach in close contact until now, nearly three years after the operation, I None was tied until find in my last note made this year, "No bleeding all the sutures were in place A silver wire suture between menstrual periods, menstruation lasts from was introduced through the outer coats of the three to ten days, when the latter the bleeding is stomach about the centre of the portion exposed, to slight most of the time " Her pains have ceased serve as a guide when the stomach should be opened since the operation, her general health has greatly improved, and she looks much younger the operation she has been, and is now, following Nothing was peritoneal inflammation, but notwithstanding that done at the operation to account for this improvethe nourishment by rectum was continued and well ment, which is great enough to have been considered quite a success, if the ovaries had been removed tion was so great that we opened the stomach on The tumor is gradually increasing in size, and is now

The next case is one of so much interest that I and by a funnel inserted into the tube several part of the operative treatment was not performed by myself The laparotomy was performed by my colleague, when I was a member of the staff of the tinued to sink and died two days later, or four after German Hospital, Dr F H Gross, during his term of service, the hermotomy by myself during my 3-Large uterine fibroid Exploratory incision, term, though we were both present, and took active of o aries, recovery—Miss Mary A, ret 36 years, Gross for permission to report this case

Case 1 - Strangulated herma Operation, loss fused until symptoms of suffocation appeared, when of 9 inches of intestine, subsequent lapar otomy, sev- I was hurriedly called upon to operate eral feet of bowel found obstructed by inflammatory defosits, bowel above the obstruction joined to bowel not present the typical diagnostic points of an ova below the obstruction, recovery - Frank F, set 18 rian tumor years, was admitted to the German Hospital on the evening of March 3 1884, with a strangulated right of Utahville, and two of their office students, were inguinal hernia of eighteen hours' duration opening the sac of the herma 9 inches of the bowel ing the peritoneum, at once the contents of the was found to be in a sloughing condition was nicked, the healthy ends of the bowel made to would not flow through a canula, and it was not until protrude, and the gangrenous portion incised proposed, on the next day, to freshen the edges of was able to draw the glucose-like mass out, even the healthy bowel and bring them together By the then it would not run, but had to be lifted and drawn following morning the patient had developed an in- out by the hand Of this substance there were in all tense peritonitis, with a temperature of 104°, and the about 60 pints operation was postponed. After a week of severe great difficulty, the material was adherent to every illness he recovered, the sloughing bowel having sep- thing and had penetrated to all portions of the cav arated in the meantime

Some weeks later, as he was slowly emaciating, and the discharges looked as though the artificial ruptured in many places, and had probably been anus was high up in the bowel, operative interference ruptured for a long time. It had but few adhesions, was decided upon The wound was enlarged directly and these to the omentum, its pedicle was long, upward, at first but slightly, but ultimately to the extent of several inches, for the purpose of joining the ture, it would have been quite a favorable case. The divided ends of the bowel

In the neighborhood of the artificial anus from 2 to 3 feet of intestine were found, strongly matted together with inflammatory deposits Small projecting the operation she did well for two days, some of the loops of a few inches in length were found free, with both ends terminating in the mass of the bowel, from which the slough had separated, could not readily be distinguished from any of the other loops, and it soon appeared that it would be useless to join it to the bowel which formed the artificial anus, as it was completely obstructed at many As the colon was free, and a few inches of the ileum, at the suggestion of Dr Weed, then one of the resident physicians, it was decided to join the bowel forming the artificial anus to the colon this purpose a small opening was made in the cæcum, and one blade of Dupuytren's enterotome introduced, the other being carried into the bowel forming the artificial anus, and the two blades clamped together A temporary ligature was placed around both intes- health tines while the toilette of the peritoneum was made, tected His temperature, though normal in the morn they were then fastened in position and the wound, |ing, ran up to 102° each evening It was now con about 6 inches in length, closed

The patient did well after the operation, though it was found necessary to reapply the enterotome twice before a satisfactory opening was obtained, three times in all The fæcal fistula rapidly con- house staff, I made an incision 4 inches long, begintracted, and when I last saw him he was able to wear a pad over it for a week without removal, his bowels acted naturally, he was free from pain, gaining flesh, and was working as elevator boy at the hospital heard afterward that another surgeon had attempted, though unsuccessfully, to close the fistula

Case 5 - Ruptured ovarian cyst Ovariotomy, death on the fourth day -Mrs D, set 54 years, a patient of Dr Hogue, of Houtzdale, Clearfield Co, Pa, had suffered for some years with a large ovarian ing the abscess, though in contact, were not adherent tumor, and though she had been advised by many A series of catgut sutures and some silk ones were physicians to have an operation performed, she re-introduced, fastening the two layers of pentoneum

The abdomen was enormously distended, but did

Dr Hogue, of Houtzdale, his brother, Dr Hogue, On present and assisted at the operation On incis The ring ruptured cyst appeared in the wound This material We the incision had been increased to 6 inches that I The abdomen was cleaned with Both visceral and parietal peritoneum nere thickened, roughened and nodular The cyst was and had the operation been performed before rup pedicle was tied with silk, dropped, and the abdomen closed The patient scarcely suffered from shock. though the operation was quite prolonged After cyst contents passing through the drain, but she per The lower end ished on the fourth day, probably with septic pento

> Case 6 —Encysted pelvic abscess Abdominal and visces al per itoneum stitched together, abscess emptied and drained, recover y -- Morris S, set 31 years, was admitted to the Jefferson Medical College Hospital June 17, 1886 He had a tumor about the size of the adult fist, deep in the right iliac fossa, just to the right of the median line It was regular in its out For line, not very painful, though tender on deep pressure and it was covered by the intestines

He stated that he had noticed it for two years, and that it was nearly its present size when first discov-He had lost flesh, but was still in quite fair ered No pulsation and no murmur could be de sidered as probably an encysted purulent collection, although there was no evidence of any disease of the spine or kidneys

With the assistance of Dr O H Allis and the ning I inch above and I inch to the left of the an terior superior spinous process, then carried it down ward and inward parallel to Poupart's ligament, about the same incision as is used for the ligation of the iliac After the muscles were divided, the trans arteries versalis fascia was separated until we were close to the growth, when fluctuation was readily detected Carrying our incision toward the mass it was found that the parietal layer of peritoneum and that cover

together and surrounding the proposed point of in | in April, 1886, for an attack of bronchitis, which was After verifying our diagnosis by the explor-| attended with some muscular debility the cause of the collection A large drainage tube was introduced, by means of which the cavity was daily irrigated with antiseptic solutions, the discharge gradually ceased, and he was sent out cured July 26, 1886

Case 7 - Double ovariotomy, multilocular cysts about 40 pounds in weight, recovery -Mrs Sarah Mc was sent to me by Dr James Graham She was 28 years of age, married, no children, and no mis-She always menstruated regularly previto this year, during this year she had bled two or After postponing the operthree times each month ation once or twice in consequence of unexpected bleeding, the third time it was performed, though she bled the night before and was bleeding during difficulty in micturition No cedema in limbs or abdomen, no nausea, and no vomiting She first no ticed the tumor one year ago in the right iliac fossa, the abdominal enlargement was characteristic, the veins were enlarged, the wave was well transmitted, the uterus was small and anteverted

Operation October 18, 1886 present Drs J C Da Costa, Fisher, Graham, Koons and Gardner The abdomen had been prepared the day before with turpentine and mercury, the latter being still on sponges and instruments The incision was 4 inches in length, there was some ascitic fluid in the abdommal cavity, the cyst was multilocular and had no adhesions Its contents were quite gummy, preventing the use of the canula, the pedicle was short and belonged to the left ovary, it was tied with silk, severed and dropped

Another cyst, springing from the right ovary and about 8 inches in diameter, was found lying posterior to the first, it was also without adhesion and was removed in the same manner The abdomen was cleansed with carbolic acid sponges and closed with silk as usual

The stitches were removed on the fifth and sixth days, the bowels were moved by enema on the eighth day, the recovery was uninterrupted, the temperature her breasts entirely a secret until that time never rising above 100° after the evening of the oper-The two cysts and their contents weighed about 40 pounds

The patient was able to walk about her room at the end of three weeks

(To be concluded)

CANCER OF SACRUM AND LIVER SECONDARY TO CANCER OF BREASTS

Read before the District of Columbia Medical Society, Febru ary 1, 1888

BI G L MAGRUDER, M D, OF WASHINGTON D C

ing needle, a free incision was made, giving exit to she promptly rallied. I did not have occasion to about 8 ounces of healthy, odorless pus A finger see her again until August of the same year. At introduced into the abscess cavity failed to discover this time she complained of great pain and pressure over the region of the sacrum and the left inguinal region, and down the left leg It was almost impossible for her to remain seated for any time in any one position. She was constantly endeavoring to ease herself by throwing a portion of her weight from one side to the other by placing her hands upon the Her sufferings were greatly augmented when she assumed the recumbent posture There was no position in which she could lie with comfort bowels were constipated and her movements generally accompanied with pain Her debility was very She gave no history of any preceding marked trouble, nor did she allude to the existing condition of her breasts She strenuously avoided any allusion to her actual condition, but spoke only of her pain the operation She had had no leucorrhoea, but little in the left leg, side, and the pressure at the lower portion of the spinal column She endeavored to attribute her symptoms to long, close and anxious attention to her daughter and grandchildren, who had required her constant services for several preceding months Her views at first seemed quite plausible, and a close examination was not insisted upon Anodynes and tonics were ordered without producing any improvement, save that the pain was kept under control in a measure

Being called away from the city toward the latter 2 per cent solution of carbolic acid was used on the part of the month, I did not see her again until the latter part of November In the interim Dr Busey had seen her several times Her symptoms were much In addition, about this time she had an aggravated attack of peritonitis She had frequently suffered before with these attacks of nausea and vomiting, and her digestion was very faulty Eructations of gas were decidedly troublesome, and it was at this time her abdomen began to perceptibly enlarge would not allow a more thorough examination, it was attributed to the indigestion As the disease progressed, and finding no improvement, Dr Busey was called in consultation To the surprise of Dr Busey and myself, and also her family, we found schirrus tumors in both breasts, and the abdomen greatly distended with fluid She had kept the condition of condition was such that operative interference was entirely out of the question She would not listen to even tapping to remove the accumulated fluid Then it was ascertained that about twenty-five years before she first noticed a small lump in one of her This did not give her any inconvenience until about five years ago, when she noticed a decided increase in the size, which was soon succeeded by the appearance of another tumor in the other breast, both of which were accompanied with a sinking in of the nipple About two years previous she had noticed that she was not able to undergo the same degree of fatigue as before Her back would give out, she also suffered intensely when she had a Mrs — was first under my care for a short time times a sensation of great fulness in the head movement of the bowels She experienced at these

After the date of the consultation and examination, which was in December, her decline was rapid The most distressing attacks of nausea and vomiting repeatedly occurred and resisted all efforts at alleviwas excruciating and required repeated doses of morplua and atropia, then again she would pass several days without having to use any anodyne. There was no paralysis at any time during her illness. Just before death there were involuntary discharges from the Death took place from exhaustion on February 18, 1887, eight months from the time of the placenta first appearance of these annoying symptoms There was no history of cancer on either side of her family

Post-mortem Examination by Dr Lamb -Mrs -(white), we about 48 Has had a tumor of the breast for about five years Died February 18, 1887

Body much emaciated, lower limbs cedematous, and hard cancerous tumor in each mammary gland The right one was small, movable, and lay to the outer side of the nipple, the left one was much nodulated ation of the baby, when poorly developed and pale, and included the nipple The right lung contained much serum, lymph and soft bands, the lung col The left lung showed old adhesions over almost the entire surface Heart normal There were 2 gallons of straw-colored fluid with flakes of lymph and soft bands in the abdomen, firm old ad-however, no unmitigated blessing hesions of the viscera generally, peritoneum everywhere dotted with small, flat, whitish deposits (chronic) peritonitis) and in places thickened Greater omentum contracted to a cord 1/2 inch thick Stomach Adhesions of intestines Liver small, contained an abundance of white cheese-like nodules of cancer, from very small ones to 34 inch in diameter Gill bladder distended with bile—spleen small Pan-Each Lidney showed some thinning ci eas normal Bladder normal Uterus short and broad, atrophy of posterior lip, ulceration around os uteri Right Fallopian tube distorted, fimbriated extremity distended into a serous cyst size of a pigeon's-egg Right ovary showed cicatrices of ovulation tube and ovary imbedded in a mass of chronic in-A tumor occupied flammation of broad ligaments the front of the sacrum, from the second to the fourth pieces (more in left side than right, and projected into pelvic cavity) It was as large as a walnut, very vascular and brittle, had a shell-like interior and large Microscopical examination of liver cavities within and sacral tumors showed hard cancer (Dr Gray, of) The primary tumor was that of Medical Museum) Those of the liver and sacrum were the breast secondary

815 Vermont Ave

MEDICAL PROGRESS.

TREATMENT OF THE CORD -DR A JACOBI SAYS The indications for the application of the ligature, and thereby the complete interruption of feetal circulation, appear to vary in the practice and teachings of the obstetricians When the baby has cried a few times, the majority apply the ligature and cut

the cord Others insist upon waiting for the col lapse of the cord produced by that of the vein, while the arteries are still pulsating and some will wait for the disappearance of the arterial pulse A At times the pain in the abdomen and sacrum few facts may be remembered for the purpose of guiding the practitioner in individual cases, for the amount of blood entering, or retained in, the body of the infant is by no means an indifferent matter

If the ligature be applied after the cessation of the umbilical pulsation, there are still six ounces of blood (192 grammes, according to Zweisel) in the If the latter be compressed by Crede's procedure that amount is reduced to three ounces (92 grams) Thus the difference between the two procedures means a difference of three ounces of blood in the circulation of the newly born, which is an enormous addition to the usual quantity of blood, which in the infant but little older is but little more than 5 per cent of the total weight of its After all, it appears that the deferred separ and the admission of more blood to its system, is deserving of recommendation, while, on the other hand, there may be an occasional indication for bleeding the infant 1

The introduction of a large quantity of blood is, The blood vessels of the newly-born are so thin and fragile that spontaneous hæmorrhages on serous membranes and into the nerve-centres, etc, are by no means un common under normal circumstances It is true that the destruction of superfluous blood corpuscles is very rapid, as rapid, indeed, as it is known to be after transfusion in the adult, but some time is re quired to accomplish that end, and during that time hæmorrhages may take place, and have been re This danger is ported by Neumann and Illing sufficiently great to counterbalance the alleged ob servation of Hofmeier, according to whom babies, after deferred separation from the mother, lost less weight and commenced to increase sooner than However, Violet those removed more speedily states that the former lost twenty ounces (619 grams), the latter but nineteen (585 grams)

Nor does Poral's observation, according to which congested babies exhibit a more intense degree of

jaundice, lack confirmation

If the ligature be thin, it is liable to cut through the walls of the blood-vessels prematurely, if too thick, it may not suffice to compress them satis It ought to be applied at a distance of from one and a half to two and a half inches from Not nearer, in order to avoid the abdominal wall the effect of the immense muscular power of the um bilical arteries inside the abdominal cavity second ligature is placed about an inch from the first, and the cord cut between them It is a good rule, which must surely be adhered to in every case of thick cord, to apply an additional ligature between the first and abdominal wall, to avoid hemorrhage from the insufficiently compressed arteries, which may take place after the cord has commenced to

¹ Archives of Pediatrics March page 130

up in a dry and soft piece of linen, lint, or cotton, pains and weakness in August, 1885 of the abdomen, so as not to slip

good also for the cord when it is separated from the peared 1853, is absolutely worthless stances, and moisture of any kind, must be avoided of bronchitis muth, or oxide of zinc, or iodoform, or salicylic acid, septic treatment was tried round the insertion of the cord and over the stump scribed the following treatment uniform through the whole thickness of the amnion and the three blood-vessels

and the reactive inflammation is dry a few days after the falling of the cord, and patient is apparently cured cicatrization complete within twelve or fifteen days turbed by careless handling, local irritation, and in ferred for many weeks Under these circumstances constantly influenced by its poisonous properties of lead, zinc, or alum answer quite well diphtheria is unpardonable Perchloride of iron, or was adopted seen babies die from applications of iron to the um- turned same manner -Archives of Pediatries, April, 1888 gained six pounds

special interest. In the first case the patient, an ex- had failed in modifying

The abdominal end of cord is then wrapped commandant, 48 years old, complained of gastric placed on the left side of the abdomen, and fastened, demonstrated that there was no serious lesion in any by means of a soft flannel bandage, which is wide of the organs. The patient acquired the habit of inenough to cover the larger part of the chest and all haling ether to soothe the pains In August, 1886, he had a serious affection of the stomach, from which In wrapping up the end of the cord no oil must he partially recovered. In October he began to Warmth and dryness favor mumification, grow thin, the appetite diminished, evening fever, moisture and exclusion of air, gangrene This holds nocturnal sweats, and a constant dry cough ap-In November unmistakable symptoms of hving baby by an additional ligature, and in the tuberculosis were observed. There were crackling Thus, the former forensic axiom, that a dry sounds in the apices of the lungs, streaks of blood cord proved life, which prevailed for decades after were detected in the sputa. The patient continued Meckel had demonstrated its fallacy as early as to inhale ether to sooth the coughing. In December Thus, fatty sub-the patient had measles followed by a severe attack His condition appeared desperate, as much as possible Powdered subnitrate of bis-when, at the end of December, Dr Dechat's anti-Dr Dechat, who was one part with ten parts of starch, may be dusted the first to administer carbolic acid internally, pre-A spoonful of The latter application is not necessarily use- sulpho carbolic syrup, three times a day, and three less (from the point of view of antisepsis), for the times a week an injection with iodo carbolic solution separation of the cord is a gradual one, and not This treatment was continued during one month, considerable improvement ensued, the treatment was modified The patient continued to take ether The size of the sore stump and the rapidity or He has increased in weight, recovered his appetite, slowness of cicatrization depei d upon the thickness and is almost free from cough Blood was no longer of the cord, the intensity of the line of demarcation, detected in the sputa, nocturnal sweats disappeared The latter are most, Respiration was normal, the cracklings in the apex marked in vigorous infants As a rule, the surface of the lungs disappeared in February, 1887 The

The second case was one of laryngeal granulations This normal process is, however, dis-of tuberculous nature. The patient was pale and thin, and presented every external sign of tubercufectious influences In these cases there is a serous losis He had typhoid fever at 33 At 42 he had or purulent secretion, and cicatrization may be de- an attack of bronchitis, his voice failed, he coughed The appetite diminished, he grew thin, local treatment is required Carbohc acid ought to there was purulent expectoration. The back of the be avoided, for the newly-born and infant are easily throat was red A number of little yellow spots Solutions (granulations) were detected on the soft palate, the As before, pharyngeal mucous and the vocal cords There however, I recommend the powders of zinc oxide, were mucous râles throughout the two lungs, in the bismuth subnitrate, alum with starch, salicylic acid apex of the right lung humid crepitating iales were with starch, or iodoform Such measures will always detected Percussion in the right apex gave a dull prove helpful, to omit them in times of erysipelas or sound. On February 26, the following treatment subsulphate of iron, must not be used Under the bolic syrup were administered daily, two injections hard congulation formed by its application over the with iodo carbolic solution were made every week whole wound secretions will accumulate, cannot The patient gradually gained strength, the cough escape, are absorbed, and produce sepsis I have and nocturnal sweats disappeared, the appenie rebilical stump, as I know of women dying for the pounds in weight. On April 24, the mucous râles same reason when the hæmorrhages from their uteri had disappeared, the condition of the throat had imor from the lacerated vaginæ were maltreated in the proved, the voice was clear, and the patient had

An anti-parasitic treatment with carbolic acid is CARBOLIC ACID IN THE TREATMENT OF TUBERCU- now universally employed in the Paris hospitals IOSIS - DR MAICAT, of Nice, writes (La Medecu c M Dieulafor and M Dujardin-Beaumetz have des Ferments, No 33, 1888) that the numerous suc employed carbolic acid in subcutaneous injections cesses he has had with carbolic acid in the treat. The former administered injections of 1 gr at 1 per ment of pulmonary, laryngeal, and even fistulous cent with the Pravaz syringe, and succeeded in tuberculosis have fully convinced him of its efficacy checking intermittent fever which had recurred four The two following cases are of times in one year, and which strong doses of quinine The reason M Dieulafoy

employed such small doses of carbolic acid was because he feared the occurrence of untoward symp- logical studies have shown that none of the drugs only when carbolic acid is not pure that such acci life any, potentcy, so far as the fermentative changes dents are observed. M. Dujardin-Beaumetz has in the intestine are concerned. Calomel, bismuth, employed 1 o gr of a 2 per cent solution, but he in-salicylic acid, naphthaline, carbolic acid, all diminish sists on the necessity of using pure carbolic acid Indeed, 15 and 20 grains of such a solution may be slightly, perhaps one-fourth or one-third at the most prescribed when the acid is pure

M Dujardin-Beaumetz, in a lecture on carbolic acid in the treatment of phthisis, said the absorption of the acid by the pulmonary passages being out of the question, the only means of administering it is by hypodermic injections and through the digestive tube, whether by the stomach or the rectum digestive tube is defective in consumptive patients, any irritation of the stomach in their case should be but in this later experience shows that he was mis The skin and the rectum are therefore taken the only means by which the acid may be safely in-The valuable antiseptic properties of carbolic acid, its volatile properties and its elimination by the respiratory organs, have induced many Naphthol is not a new drug. It has been used by medical men to employ this substance in pulmonary dermatologists for six or seven years, and by surgeons tuberculosis skin, or deep injections may be made by inserting employed is the beta-naphthol, and this is what Bou the needle of the syringe perpendicularly into the chard uses. It is obtained from tar, and is a sub soft parts, by this means the antiseptic liquid may stance soluble in alcohol, but not in pure water be conveyed to the very spot in which the lesion ex-Professor Lépine and his pupil, Truc, tried intra pulmonary injections in tuberculosis, with a 2 microorganisms, he found that a solution of 40 per per cent solution of creosote in alcohol An in- 1000, or 04 per cent, was sufficient to prevent their jection with a weak solution of morphine to prevent development. This, he states, is one-sixteenth the pain was previously made. These writers recommended iodoform, by which excellent results were strength of carbolic acid But though less powerful obtained in the treatment of tuberculous abscess For the carbolic acid injections, a large syringe, containing 5 grains of the liquid, should be em- As the result of tests made, Bouchard states that the ployed A 2 per cent solution of carbolic acid, toxic dose of naphthol for a man weighing 130 lbs perfectly pure and previously dissolved in glycerine is 250 grams, or about half a pound On the other (alcohol is irritating) should be used which the injections are practised should be chosen in the anterior portion of the chest, below the The number of incisions to be made must be determined by the particular character of the affection, but an excessive number may determine spasmodic muscular contractions, salivation and the symptoms of intoxication which have been observed after a treatment with large doses of carbolic Bouchard gives the following interesting tabular state acid, namely cold, cyanosis, collapse, vomiting, blackish coloring of the urine These phenomena are dependent on certain idiosyncrasies of different Certain patients cannot be submitted ındıvıduals In a large number of patients, to this treatment however, the following results are obtained with car-The appetite returns, the patients can bolic acid leave their beds and walk out, the coughing and evpectoration are modified the nocturnal sweats fre-On the whole, although there quently disappear are certain disadvantages attending the use of car bolic acid, such as the possibility of intolication, and a certain amount of irritation, M Dujardin-Beaumetz considers that this substance will procure relief in many cases of pulmonary tuberculosis -London Medical Recorder, March 20, 1888

AN INTESTINAL ANTISEPTIC - Careful bacterio But it has been clearly proved that it is ordinarily used internally as antiseptics have much, the number of microorganisms in the fæces but Given in large enough doses to be really effective germicides, they are all dangerous to life To secure a real intestinal antiseptic, we must find a drug but slightly soluble, not readily decomposable, non irii tating, of powerful disinfectant property, and com paratively innocuous to life, even when it does reach The the circulating fluids of the body Rossbach thought that in naphthalin such a substance had been found, In a recent communication to the Académie des Sciences, M Bouchard (Med Record, 24th De cember, 1887) claims to have found a substance which does fill all these requirements, viz, naphthol The injections may be made on the for a somewhat shorter time. The preparation usually Bouchard first made a series of experiments to deter mine its germicidal power With regard to pyogenic strength of mercury biniodide, and five times the than mercury as an antiseptic, it has the advantage of being comparatively harmless to the human body The spots at hand, a daily dosage of 2 50 grams, or less than 40 grains, is sufficient to produce intestinal antisepsis Toxic, not lethal, effects have only been produced when the naphthol was ingested in doses of about 26 The phenomena are those of albuminum, grams Hæmoglobinuria has not been observed ment of the comparative antiseptic power, toxity, and dosage of several different substances

•	Antiseptic Dose	Toxic Dose,	Daily Totic
Iodoform,	1 27	°0 50	0 0 ₀ 1 24
Iodolorin,	2 75	2 17	1 24
Naphthalin,	1 51	3 70 3 40	1 10
Beta naphthol	0 40		
_I her apeutic Gaz	zette, Februar	y, 1800	

CYSTIC TUMOR OF THE LARYNY -DR C W DESVERNINE, of Havana, reports the case of a man, æt 70 years, a Cuban, who came under treatment for chronic hoarseness and some symptoms referable to the digestive apparatus intense epigastric pain, paroxysmal, and regurgitation of food a few minutes after eating No family history could be obtained, the patient was neither alcoholic nor syphilitic

1888]

There was typical bitonal dysphonia, and dysphagia On laryngoscopic examination the vocal organ was normal in all its parts except the right vocal chord, the middle third of which was so enlarged as to present a general fusiform appearance Its bilateral excursions were performed correctly, General tension, on the contrary, was energetic During efforts at vocalization the appearance of the chord was not changed, and during the utterance of liquid sounds the corresponding arytenoid was dragged and forcibly inclined towards the centre of the larynx The color of the chord was a faded white, reflecting less light than the other determined that the chord was invaded by a dense and inelastic product, and the diagnosis of interstitial fibroma and diffuse chorditis made

The patient died of the carcinomatous infiltration of the esophagus Direct laryngeal inspection after death presented the same appearance as the ante-mortem examination The fusiform enlargement occupied the anterior part of the middle third the baby must be carefully watched of the chord, and measured 6 mm in its greatest It fluctuated on pressure, and a few drops of a clear mucoid liquid escaped chord was a cavity measuring 5 mm in transverse diameter, by 35 mm vertically

There is, thus far, says the author, no complete do still more harm than their medicines pathological and histological history of such a tumor, and he promises to publish the results of the examination of his case at an early date - Cronica Medico Quirurgica de la Habana, March, 1888

ments to determine the value of this compound should be a yellow-brownish powder, inodorous when recently prepared, almost insoluble in water, soluble treatment is in such cases the only safeguard in alcohol, ether, fatty oils, and crystallizable acetic 10dine

dusted over with iodol healed by primary union an excellent antiseptic, rapidly drying up all purulent secretion in large quantities without inconvenience highly probable that iodol destroys pyogenic organ-It is While it is an excellent dressing for indurated chancres, it gives variable results in soft chancres

When taken internally, in doses of from 40 centig to 2 grams a day, it does not cause functional troubles, even when continued for a long time causes slight congestion of the nasal and conjunctivil mucous membranes, but this disappears when large doses are taken albuminuria, but on the contrary, it has perhaps a curative action in some cases of albuminuma

Iodol may be used in powder, in a glycero alcofrom organic stricture of the esophagus in its lower holic solution, in gauze or iodolated collodion, in ethereal solution, or it may be incorporated with vaseline or lanoline -L'Union Med, March 18, 1888

ICTERUS IN INFANCI —DR A JACOBI SAYS certain degree of yellowish discoloration of the skin abduction and adduction being full, complete, and is the result of the normal changes of hæmatin deposited in the skin during the rapid transition from fœtal to post natal circulation. When by retarded separation of the newly-born from the mother, and compression of the placenta, the amount of blood in the circulation of the infant is unduly increased, this form of hæmatogene jaundice is rather more developed The simplest form of hepatogene icterus is produced by the sudden diminution of the blood circulating in the vessels of the liver, which encourages the exosmotic transition of bile into the adjoining blood-vessels All of these forms of jaundice require no treatment Duodenal catarrh will produce icterus in the newly-born, as it does in ad-Thus the feeding and the digestion of vanced age The routine administration of syrup of rhubarb is a mistake on the part of the female busybodies which must be dis-In the couraged Maybe some of them can be taught that acid cow's milk and indiscriminate feeding in general, and exposure, tight bandaging, and cold feet, can resulting from congenital obliteration of the large biliary ducts, or congenital cirrhosis, or acute fatty degeneration, or epidemic hæmoglobinuria is incura-Icterus during septic infection is a bad symptom, and rarely terminates otherwise than in death IODOL -- ASSAL1 has made a number of experi- Icterus depending on congenital syphilis of the liver It is grave, but I have met with several cases which re-A thorough and energetic antisyphilitic covered may prove unsuccessful, however, because the syphacid, and should contain from 85 to 89 per cent of litic process of the connective tissue is not confined to the liver, but extends to the rest of the organs In Assaky's hands, operation wounds that were Mercury must be administered for a long time, a In twentieth or a twelfth of a grain of calomel three sloughing and suppurating wounds it proved itself times a day, careful inunction of a scruple of blue ountment daily, or one thirtieth of a grain of corro-Since it is not toxic it may be used sive sublimate in a 2 of a per cent solution of dis tilled water for subcutaneous injection daily beginning of the treatment two of these medications isms. It gives excellent results when used in and on may be combined, or one of these together with the wounds with a tendency to ulcerate, and transforms internal administration of from three to five grains of iodide of potassium The internal administration of the bichloride of mercury is also well tolerated, one hundredth of a grain may be given in a teaspoonful of water, or food, every two or four hours, and continued many weeks -Archives of It | Pediatrics, April, 1888

WOUND OF THE LEFF VENTRICLE, RECOVERY -It does not cause A P KIAWLOFF reports the case of a Cossack who received a dagger-wound in the left side of the gives excellent results in tertiary syphilitic affectately found him lying on the ground, unconscious, It thorax A physician that saw him almost immeditions, and in surgical scrofuloses, acting more rapidly and with stertorous breathing. The chest was corered with blood, and in the 4th intercostal space, in

the mammillary line and parallel to the border of suffered for three years with symptoms of dyspepsia the ribs, was a wound 15 inches long, from which and anæmia, and with attacks of vomiting of glairy blood was still flowing The wound was cleansed, mucus a compress put on, and restoratives applied, after tumor in the epigastric region, and it had grown which the patient became conscious On the next more rapidly during the last six months She en day his general condition was good, pulse 90 and tered the Seraphim Hospital in Stockholm on May small, temperature 37 8 C Percussion showed the 31, 1887 upper boundary of heart dulness in the 4th inter-region, between the prolongation of the parasternal space, and the impulse was faulty. Lower percus-line and the left mamillary line, was a tumor as sion boundary at the upper border of the 7th rib large as the hand, with a concave upper, and convex Right boundary reached beyond the right parasternal lower border. It could not be displaced towards line, and the left boundary about 3 cm beyond the left mammillary line

On the third day the patient was taken to a hospital, which he left, cured, after four weeks days after leaving the hospital he suddenly dropped ture dead while trying to lift a heavy object tops, should the heart-wound completely closed, and the outer layer of the pericardium adherent to grams the chest-wall The pericardium was filled with sutures, in two rows dark blood, on the left ventricle was a gaping complete recovery wound 14 cm long, the edges of which were thickened, and the neighboring muscular tissue in a state of slight fatty degeneration, subacute endoof the left ventricle, but the patient died from too early strain on his weakened heart The cicatrix was too new, and the endocarditis had not passed The heart could not stand the strain of a sudden inrush of blood, and the cicatin raptured makes 7 per cent of recoveries of recorded cases -Centralblatt für Chirurgie, No 12, 1888

THE SOLUBILITY OF BORIC ACID —According to Schultz calcined magnesia has the property of forming with boric acid a salt composed of several molecules of the acid to one of magnesium oxide According to Mansier the solutions consist in a dissolution of polyborate of magnesium in the dis-The desired quansolved boric acid, or vice versa tity of boiling water is poured on a mixture of magnesia and boric acid placed in a covered vessel

> Boric acid Calcined magnesia

Distilled water q s ad 1 litre By adding 1 25 grams of magnesia to every 10 grams more of boric acid we have

> 120 grams Boric acid 10 Calcined magnesia Distilled water q s ad 1 litre

This solution remains clear at 15° C When 1 50 grams of magnesia are added for each 10 grams of boric acid there is no precipitate at 12° C

These solutions may be used for washing out the For some time bladder, and for general dressings Guyon has used a solution of 50 grams to the litre, maintaining this degree of concentration by the addition of 5 grams of borate of soda, provided the temperature of the solution does not fall below 18° C -Annales des Mal des Voies Gén-Urin, February, 1888

HAIR TUMOR OF THE STOMACH -- JOHN BERG reports the case of a married woman, æt 26, who had

For two years there had been noticed a In the epigastric and left hypochondriac the region of the kidney The spleen was in its normal position Laparotomy showed that the tumor was in the stomach, which was opened by an Five incision 6 or 8 cm long parallel to the greater curva The tumor was composed of hair, short and The au- long, forcibly compressed It was cut up and re moved piece meal The whole weighed about 900 The wound was closed by twenty three Union by first intention, and The mother of the patient said that when about 3 years old she had a habit of chewing hair, but the patient denied having done so since she could remember With the cases of The case, then, was one of healed wound Schonborn and Knowsley Thornton this makes three cases of operation, all successful, for hair tumors -Nordiskt Medicinskt Arkir, Bd xix, No 25

> SALOL IN DIARRHEA -DR O T OSBORNE, of New Haven, gives salol every two hours in acute diarrhœa, until the stools cease The indications for the drug in bowel troubles are vomiting, purging, cramps, "summer diarrhoas" of children, and Dr Osborne has found it useful in prolonged diarrhœa and in one case of dysentery He has used it most frequently in the diarrhoea and vomiting of children, and in every case with success, the stools becoming infrequent immediately, assuming their natural color, To a child under and losing their offensive odor 2 years he gives gram o5 (gr 3/4), from 2 to 5 years I gram (gr jss), 5 to 12 years 2 gram (gr 11) and to all above 12 years 3 (gr 1vss) -N Medical Journal, April 7, 1888

PALPEBRAL ECZEMA —LAILLER recommends the following

2 parts Crystallized acetic acid 50 " Glycerme Cherry laurel water (dist)

To be painted on the eyelid once a day brush should be slightly resistant, and the mixture carefully applied - Riforma Medica, March, 22, 1888

QUEBRACHO IN DYSPNŒA—Ellis has found the following formula useful

Syrup of prunes Syrup of tolu grams 30 Fluid ext of quebracho an gtt 25 Dilute hydrocyanic acid centig 3 Sulphate of morphia

One teaspoonful, to be repeated if necessary

THE

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOF OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events or matters that it is desirable to call to the attention of the profession Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published All com munications in regard to editorial work should be addressed to the Editor

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SATURDAY, APRIL 28, 1888

SURGERY OF CEREBRAL TUMORS

One of the most valuable and exhaustive papers ever presented to an American society was read by DRS SEGUIN and WEIR before the Academy of Medicine, of New York, on April 5 It was entitled "A Contribution to the Diagnosis and Surgery of Cerebral Tumors," the surgical portion being supplied by Dr Weir, who successfully performed the operation in the very interesting case upon which the paper was based

The patient was a male, 39 years of age, who was sent to Dr Seguin by Dr Godfrey, of Bridgeport, Conn, last August He had good health until five years ago, when during an attack of malarial fever he had a spasm of the right side of the face and neck The next year he had another similar seizure, and later there were others, in none of which were any spasmodic movements of the hand or arm Two years ago the symptoms became more marked, and the attacks assumed the character of general epileptic convulsions Dr Seguin found that the lower facial power, with very slight tactile anæsthesia, in the right Speech was almost wholly suspended, but mental action was accurate The pupils and the that the lesion was a medullary one from the absence any convulsive seizures during the last six weeks

The symptoms were constantly growing more aggravated, and, an operation being advised, he came to New York in November and was admitted as a private patient at the New York Hospital where, on November 7, the operation was performed by Dr Weir under strict antiseptic precautions, including Before trephining a minute perforation was made in the scalp at the point indicated by Dr Seguin for the opening in the cranium to be made, and through this the place was marked on the skull by means of a colored pencil Flaps of the scalp were then reflected back, and the two buttons of bone, each about an inch in diameter were removed with the trephine, after which other pieces of bone were removed with the rougeur until the cranial opening was three inches in length and two inches wide, on the auriculo-bregmatic line Careful exploration revealed nothing abnormal at first, but afterwards firm pressure posteriorly revealed the presence of a small hard mass about 75 inch beneath the surface of the brain It was about as large as the end of the finger, and was scooped out by means of a Volkmann's spoon A smaller mass was then discovered and removed, and the dura mater was stitched The wound having been given a final washing with bichloride solution (1 5000) the discs cut with the trephine and other pieces of bone removed, which had been carefully kept, were replaced and the scalp sutured with catgut The operation lasted 1 75 hours, the time being prolonged by the difficulty met with in controlling the hæmorrhage incident to the procedure The tumor was found by Dr Peabody to be an infiltrating sarcoma after history of the case was given by Dr Seguin For a short time after the operation there was almost complete hemiplegia and aphasia, but afterwards these disappeared, and the general condition of the patient was about the same as before, although there was now no druling from the right corner of the mouth, which had been previously a marked symptom, and there was more power in the muscles of the cheek He had no convulsive attack from the day muscles in the right side and the muscles of the right of the operation to December 8, and after that he arm were parietic, and that there was some loss of had two others before his return to Bridgeport, on December 17 He came to New York on January 23, and stated that he had had no marked attack during the last two weeks In the latter part of optic nerves were normal. He made a diagnosis of a February an unfortunate complication occurred in tumor of the motor zone of that portion of the motor the shape of a very severe onset of malarial fever, zone of the left hemisphere containing the centres accompanied with marked jaundice, and but for this for the face and neck, and was inclined to believe Dr Godfrey believed that he would not have had

While we have been accustomed to attribute the

first conception of this operation to English surgeons, it seems that priority as regards the operation really belongs to Professor F Durante, of Rome, who published in the Lancet, of October 1, 1887, a communication presented to the Surgical Section of the Ninth International Medical Congress at Washington, in which he modestly reported a case in which he operated as early 18 May, 1884. Three months afterward he presented the patient, 1 woman 35 years of age, to the Chirurgical Society at Perugia, and she 18 now, four years after the operation, in perfect health

As may be seen by our New York letter of this week, Dr W W Keen, who was present at the discussion before the Academy, related some particulars of an interesting case in his own practice, and that he agrees with Horsley as to the advisability of administering morphine in these cases, in order to diminish the supply of blood to the brain

In regard to drainage in these cases, it will be re membered that Horsley says it should not be maintained for more than 24 hours. Dr. Keen thinks this rule correct save in exceptional cases, as in his case, on account of the large clot, and the discharge that followed it

THE NEW YORK QUARANTINE STATION

Mayor Hewitt has written a letter to the chairman of the Committee on Finance of the State Senate in regard to the future management and condition of the quarantine establishment of the port of New Having referred to the threatened outbreak of cholera last autumn, and the present madequate appliances of the station, he states that under the circumstances he feels it his duty to impress upon the Legislature the necessity for action and for the appropriation of a sum of money sufficiently large (estimated at about \$200,000) to put the quarantine establishment in a thoroughly efficient condition however, it is deemed wiser to transfer the responsibility to the city of New York, he feels sure that public opinion will justify the expenditure by the city of the amount required, in which case the quarantine fees would, of course, be paid into the city The city Board of Health, he says, is so situated at the present time as to be able to take charge of the establishment and to give it such direction and supervision as will protect the public With this timely warning, in addition from disease to the various reports that have been made to it previously in regard to the inefficiency of the present quarantine appointments, the Legislature ought certainly to be stirred up to take proper action in the

matter The quarantine bill recently passed, which has now received the Governor's signature, will have some effect in improving the state of affairs in the harbor, but it does not provide the financial means for at once placing the station in a thoroughly efficient condition

RAILROAD ACCOMMODATIONS TO CINCINNATI

We are assured that a large number of the mem bers of the profession in this city are intending to attend the annual meeting of the American Medical Association to commence in Cincinnati on Tuesday, The Chicago Medical Society alone May 8, 1888 is entitled to more than forty delegates, and members of the local societies will doubtless increase the num ber to fifty or sixty, without counting many perma nent members who can attend without special ap All the railroads have agreed to pass pointment physicians and members of their families for one full fare going, and one-third fare on returning over the same route, as stated in detail in The Journal of They will commence issuing the April 7, page 439 tickets with certificates three days before the meeting, and the return tickets will be good until three days after the close of the meeting on the 11th of May Since writing the above we have received the follow ing telegram from Drs Geo C Purviance and Wm Judkins, of Cincinnati

"Delegates attending meetings over railroads that are in Trunk-line Association will receive return cer tificates here Circulate above freely"

THE DEATH OF DR C R AGNEW

DR CORNELIUS R AGNEW, beloved by all who knew him, esteemed wherever his name was known, uniting, as few physicians have done, so much learning with so many noble and generous traits of character, so much modesty with such self sacrifice in the hour of duty, has left vacant the place in the profession that he has so long honored Whether in his home, among his patients, in the lecture room, be fore his colleagues, or in the service of his country, he was the same calm, dignified, learned, charming, Christian gentleman

SMALL-Pox —From the weekly abstract of Sani tary Reports, of the office of the Supervising Surgeon General of the U S Marine Hospital Service, April 20, 1888, we learn that sixty cases of small-pox and four deaths had been reported in Philadelphia up to April 18, seventy-nine cases reported on the 19th

in New York, forty one cases and seven deaths in Brooklyn to the 20th, thirty eight of which were in the county hospital, and three isolated in the City, and in Jersey City, N J, thirty-eight cases and two deaths had been reported up to March 30, since which date no new cases had been reported. It is evident from the repeated, though limited, outbreaks of this disease in a large number of the cities of Europe and this country, that the present is a genuine epidemic season for variola, and it becomes the duty of every physician to actively aid in extending the protective influence of vaccination among all classes of the people, and in exercising vigilance in promptly detecting and isolating any cases with which they may come in contact

M HIPPOLYTE BROCHIN, editor in chief of the Gazette des Höpitaux, and Dean of the medical press of France, as he was called, died recently in Paris in his 80th year In 1837 he began his editorial career on the Gazette Medicale de Paris, and left it in 1854 to take charge of the Gazette des Hopitaux contributed several articles to the "Dictionnaire Encyclopédique des Sciences Médicales," was active in sanitary matters, and was at the post of duty in the four cholera epidemics of 1835 in Marseilles, and 1840, 1853, and 1854 in Paris

THE FEMALE PHYSICIANS OF RUSSIA recently celebrated the tenth anniversary of their professional existence, by a banquet A large number of professors and eminent medical men were present Professor Botkin said that there was a sort of instinctive divina tion proper to the brain of women, and that this faculty should prove valuable in diagnosis Pro fessors Rauchfuss and Tarnowski also made remarks

TDITORIAL NOTES

An International Congress of Otology will be held in Brussels on September 10-16, 1888

Giraud Teulon, one of the best known of French ophthalmologists and optical physiologists, is dead

STADFLWAYN, Privat-docent of internal medicine at Heidelberg, has been called to Dorpat

GAZETTE DES HOPITAUL DE TOULOUSE IS the name of a new medical journal published in Tonlouse, France

PRINCE CHUN, father of the present Emperor of Monon Route appears on page 8 China, when very sick some time ago, called in Dr

Manson, of Hongkong This is said to be the first time that any member of the Royal family in China has ever consulted a European physician

REVUE PRACTIQUE D'OBSTETRIQUE ET DE L'HY-GIENE DE L'ENFANCE is the name of a new journal that has appeared in Paris It is edited by MM Varnier and Legendre

Professor Tito Vanzetti, the eminent Italian surgeon of Padua, died on March 6, aged 78 years He left \$20,000 and a magnificent library to the University of Padua

THE CRANIA OF MOZART, BEETHOVEN, GLUCK and Schubert are to be examined by Professors Toldt, Meynert, and Kundrat, and Dr Weisbach, a Committee of the Anthropological Society of Vienna

ASSOCIATION ITEMS.

THIRTY-NINTH ANNUAL MEETING To be held in Cincinnati, Ohio, May 8, 9, 10 and 11, 1888

PRESIDENT, A Y P GARNETT, MD, of Washington, D C

Papers and Discussions

The following additional titles of papers to be read at the approaching meeting have been received since the programme was published in the issues of THE JOURNAL for April 7, 14, and 21

Section on Ophthalmology, Otology, and Laryngology

"Report on the use of Jequirity," by J P Worrell, Terre Haute Ind

Section on Obstetrics and Diseases of Women

"Renal Tenesmus, its Successful Treatment by Kolpo-Uretro Cystotomy and Intra-vaginal Drainage combined with Uterine Support," by Nathan Bozeman, New York

Section on Practical Medicine, Physiology and Therapeutics

"Mullein in the Treatment of Malarial Troubles," by Geo Byrd Harrison, Washington, D C

Railway Arrangements

PAN HANDLE ROUTE -Attention is called to the advertisement of the Pan Handle Route on page 9 of this issue of THE JOURNAL The Pan Handle is the pioneer through car line to Cincinnati, and is a portion of the Pennsylvania lines west of Pittsburgh, which should be a sufficient guarantee that any one patronizing the Pan Handle will have a pleasant and comfortable trip to Cincinnati

Monon Route - The announcement of the

THE KANKAKEE LINE -This popular and direct

line has made arrangements to run trains for the men since then had increased rapidly in size, while meeting of the Association at Cincinnati The times | the rest of the body emaciated Her appetite had of departure and arrival are as follows Leave Chicago at 9 10 A M, arrive at Cincinnati 7 15 P M, leave Chicago at 8 PM, arrive at Cincinnati 7 30 and Reclining Chairs on night trains This is the only line from Chicago entering the Grand Central Depot at Cincinnati, which is situated in the heart of the City, and in the immediate vicinity of the hotels and business centre Rates of fare same as I or further information call at city ticket office, 121 R indolph St, Chicago, or address I C Tucker, Gen'l N W Pass Agent

and the second s

SOCIETY PROCEEDINGS.

OBSTETRICAL SOCIETY OF PHILADELPHIA

Stated Meeting, Thursday, April 5, 1888 THE PRESIDENT, T. M. DRYSDALL, M.D., IN THE

DK T M DKISDALE reported a case of

MULTH OCUI AR PAPH I OMATOUS TUMOR OF THE BROAD I IGAMENT PRODUCING OBSTRUCTION OF THE BOW-OPFRACION DI ATH I ROM URAMIA, AUTOPS) DISCLOSING ONE LIDNEY CON-VERTED INTO A CYST AND THE OTHER DISCASED

At the request of her physician, Dr A G B Hinkle, I was sent for January 7, 1888, to see Mrs M I K, a widow, set 54 She stated that she was the mother of seven children, and that her labors had invariably been hard and tedious, accompanied with The menopause ocviolent abdominal cramps curred when she was 46 years old She had always been strong, worked hard, lifted heavy weights, and had had no sickness in thirty-five years until last March, when she was seized with intense pain in the abdomen together with obstinate constipation continued to suffer for several weeks, and her physicians had great difficulty in getting the bowels moved, medicines had so little effect that her life was despaired of, but she was finally relieved by co pious purgative injections Her disease was at first supposed to be owing to sewer-gas poisoning, as her son suffered in a similar manner at the same time, and they were treated accordingly, but, finding they did not improve, a consulting physician made a more thorough examination and found well-marked blue They were then treated for lines on their gums The son had relead colic and soon recovered mained well ever since, but she had suffered from colic and constipation, while the abdomen had continued permanently swollen Her bowels never moved satisfactorily, as only a portion of the contents seemed to come away, leaving the upper part tines hard tumor low down in the right side Her abdo- and a loop of intestine were firmly adherent

been good and she had no pain after her meals, but felt too full to eat much tions but no vomiting Until recently she had a Parlor cars on day trains, Pullman Sleepers slight daily movement of the bowels, but for several days past she had had no evacuation During all this time she had suffered from what she supposed was colic and, in fact, was never free from pain Just before I saw her she had taken a dose of castor oil, and at my visit was in great agony at the disten

tion She was thin and anæmic, and her complexion had the cachectic appearance of malignant disease The centre of her tongue was red and smooth The ab domen was greatly enlarged, and resonant on per cussion everywhere except below a line halfway between the umbilicus and pubis, there it was dull and fluctuation could be detected. In the right iliac region I found a hard nodulated tumor which appeared to be moderately movable, but so rigid was the ab dominal wall that it was difficult to determine this with certainty The bladder was prolapsed and pro jected between the thighs, but the uterus remained within the shortened vagina and was held up, appar ently, by being fixed to the tumor The uterine sound entered 2 inches and passed to the right As well as could be made out, the uterus and tumor were closely adherent Rectal examination revealed a firm immovable tumor occupying the upper part of The examination, although made with the pelvis the utmost gentleness, caused great pair As fre quency of micturition was a prominent symptom, Dr Hinkle had more than once examined specimens of her urine but, finding nothing abnormal, concluded that the irritation was owing to the prolapse of the As usual before an operation, I also exam ined two specimens of the urine and found it free from albumen and sugar, with a sp gr of 120 She assured me that she passed the normal quantity

The oil operated and gave her relief for twentyfour hours, but after this she grew rapidly worse, the symptoms of obstruction of the bowels increased, and by January 17, just ten days from my first visit, I was again sent for, and found that she had been in such continual agony that she had concluded to submit to an operation The abdomen was extreme ly hard, and in place of being tympanitic was every where dull on percussion, and fluctuation was general, showing that a rapid effusion of fluid had occurred

In the presence of Drs Hinkle, James F Wilson, I Howard Beck and G B McCracken, and assisted by my son, I operated January 22, 1888 sion was followed by the escape of about a gallon of The peritoneum was slightly inflamed parts thickened The growth proved to ascitic fluid and in some parts thickened be a multilocular papillomatous tumor of the broad It filled the lower part of the abdomen and the right side and occupied the upper portion of ligament the pelvis Its color was not the opaque white of an ovarian cyst, but resembled in this respect the intes The main cyst extended upwards as high as Last August she first felt a the border of the lower ribs To this the omentum adhesions were detached and the cyst drawn forward As this was being done it burst and discharged a large thing large cysts below this were tapped, which greatly re- drawn She continued drowsy, but did not sleep duced the size of the tumor, but a mass of others vic brim, obstructed it Here it was difficult to sep- urine was obtained arate the tumor from the surrounding structures without injury to them, for it was adherent to the bladder, bowel, and everything it touched After freeing it from all its other attachments without doing mischief, save to some vessels on the floor of the pelvis, which culty owing to its depth in the parts with its capsule was then removed a set of bleeding vessels below the pedicle, which were secured after considerable trouble Before closing the wound the abdomen was thoroughly cleansed been boiled The operation was tedious, lasting over an hour, and through it all the pulse was well maintained, but it was followed by a profound shock, shown in the pale face and thready, almost imperceptible pulse As soon as she became conscious she complained of intense pain in the back Under the use of stimulants and the external application of heat she reacted in about an hour

At 5 P M, four hours after the operation, the nurse applied the catheter and removed 11/2 ounce of urine

At 8 PM Dr Hinkle and I visited her and used the catheter, but the bladder was empty Her pulse was 112, temp 100 2°, which was the highest it reached She complained of feeling sore all over mustard plaster, made with warm water, to be applied over the kidneys, and prescribed a tablespoonful of the following mixture, well diluted with water, to be taken every four hours R Potasu acetatis, 3ss, spiritus ætheris nitrosi, fass, aquæ distil, faijss

10 30 PM, she vomited for the first time

12 15 AM After an ounce of urine was drawn in the abdomen, which continued until Dr Hinkle it yielded and the patient died was sent for at 2 15 A M He found her with a pulse of 94 and temp of 100°, and gave her a hypodermic diseased kidneys, and wished to know whether Dr

tympunitic, but not tender on pressure tube was used, which permitted a large quantity of ligament on account of the large amount of solid flatus to escape After this the diuretic was used by matter connected with it injections and retained We directed I drachm of DR J PRICE said there was but one authority who

2 PM Pulse 130, temp 97° Had vomited every-1/4 gr of calomel and a tablespoonful of very quantity of red serous fluid, for, as usual, the cyst hot milk were then given every hour This quieted walls were very thin and easily ruptured. Two other her stomach. At 4 50 PM 1/2 ounce of urine was

9 30 P M One drachm of urine was removed remained, filling the upper part of the pelvis, to which they were firmly adherent. This was the portion cool and pale. The catheter had been used at 2 PM which, by pressing on the bowel as it passed the pel- and at 9 A M, and each time about a teaspoonful of The stomach continued quiet until 8 A M, then she vomited occasionally Stimulants were used by the rectum, but she continued to sink and died at 6 P M

The autopsy was made the next evening by Dr McCracken, who kindly furnished me with the followbled profusely, I found it was firmly bound to the ing note of it The wound in the abdominal wall uterus, which it dragged down and held close to the was firmly united throughout its whole extent A uterine wall of the pelvis, deep down on the right moderate amount of peritonitis existed, confined side, by an exceedingly short, firm and vascular at- principally to the lower part of the anterior abdomtachment or pedicle, which I ligated with great diffi- inal wall and the lower coils of intestines, which were The tumor covered with a thin layer of pus This was the por-This revealed tion of the peritoneum which was found inflamed when the abdomen was opened at the operation The pedicle and surrounding parts from which the tumor was detached were in excellent cordition by irrigating it with warm water which had previously The right kidney was sought for, but could only be detected after a prolonged search, when it was found to have been converted into a large elongated cyst, only a small portion of the upper part of the organ remaining unchanged It resembled a distended bowel so closely that it was difficult to distinguish it from the surrounding intestine

The left kidney was enlarged and intensely con-When the adherent capsule was removed the surface of the gland presented the rough granular appearance of inflammation There were a number

of small cysts in the cortical substance

This case presents several features of interest, one of which was the steady decline in temperature from 100 2° on Sunday to 96° on Tuesday morning, but I To relieve the suppression of urine we ordered a have brought it before you mainly for the purpose of showing how we may be deceived in regard to the condition of the kidneys, even when all signs of disease are absent in the secretions This patient's life was dependent upon the active exercise of one organ which itself was diseased and struggling under the load thrown upon it as the only eliminator of its kind It naturally followed, then, that when she became restless and complained of severe pains the toxic effect of the ether was added to its burdens,

DR PARISH spoke of the toric effect of ether on injection of 16 of a grain of morphia After this Drysdale had been able to determine the renal conshe slept until 5 30 A W, when the nurse drew her dition in his case. He had some years ago had a Monday, 10 45 AM Pulse 118, temp 98° Since parenchymatous renal disease and in which death 7 30 A M had been in pain and had vomited several resulted from acute suppression of urine. It was a times The catheter had just been used and about serious question as to what anæsthetic we should use The abdomen was under similar circumstances The tumor presented

Rochelle salt to be given every two hours, and to made any mention of the condition of the temper-

ature under ether taken the temperature of a large number of patients under the anasthetic, and found that there was invariably a depression from 1° to 2° due to cessation of combustion the howels as presented by Dr Drysdale's case were very characteristic some very trying cases of this kind, and pain was always present and very severe, in several cases shock and collapse had been marked symptoms of rence of morning sickness in the husband after the the obstruction

DR DRYSDAFF did not think that the decline in temperature was due to the anæsthetic, but believed it depended upon the uramia, as he had repeatedly noted a similar depression in advanced stages of weeks after the appearance of menstruation for the Bright's disease eral times and nothing found to indicate disease of not until it was time for the next menstruation had the kidneys, in fact, there was not a single symptom present to excite suspicion of trouble in these organs, except the constant inclination to micturate, for which the prolapsed bladder was sufficient to account

DR HAMILI read the following notes

Hæmorrhage into the placenta, or placental apo- both cognizant of the fact pley, is not of rare occurrence. In the earlier stages of placental development the maternal capil- Bacon had written some line on this subject, the sub lary loops thrown into a network around the chorional villi not infrequently rupture, with a consequent effusion of blood over a greater or less area, and at a later period of intra-uterine development the blood current in the intervillous blood spaces, at all times sluggish, may become so very slow that the blood coagulates and at birth there may be seen a clot of varying extent, more or less perfectly organized, and in some cases presenting just the laminated appearance that one sees in an aneurism undergoing oblitcration

Rupture of the umbilical vein in the cord, with a rather extensive effusion of blood, has also been noted, but here the quantity of blood that can escape is of necessity limited to the comparatively small capacity of the cord In the case that I would report to the Society the apoplexy of the placenta was of fœtal instead of maternal origin, the ruptured vessel was one of the large branches of the umbilical vein running across the fœtal surface of the placenta, and the quantity of blood effused must have left the fœtal body absolutely exanguine All these circumstances to the Society specimens of the garments recom make the specimen a rare one, the last two make it mended and worn by the women interested in dress quite unique as far as my knowledge goes An extended search through medical literature has failed fit the form throughout. Over this is worn a long Unfortunately I am unto show me a similar case able to find a cause for the rupture of the bloodvessel, there was nothing in the condition of the feetus, nothing in the history of the mother, that as the circumference of the waist, so as to avoid any would account for it

DR HIRST was greatly pleased to see the specimen, and thought it unique There was one somewhat similar described by Bandelocque

DR KELLY remarked that he had in his possession delivered, in which moderate traction on the cord, mended as by use of the corset This dress is almost after separation of the child, resulted in a large exactly like that of childhood hæmorrhagic extravasation between the placenta and the amnion

Some years ago Dr Burk had amination, to come from a minute rupture in the vein on the placenta part as it left the cord, about two millimetres in length and transversely to its axis

DR J PRICE had recently had a case in which The symptoms of obstruction of death to the fœtus had occurred from pure hanging The cord was twice wrapped around the child's neck He had lately been dealing with and there was a deep indentation in the foetal tissues The cord was shortened at least one-half

DR HAMH L also read the following "The occur fact of pregnancy is known or suspected, I have fre quently noted The case I would report is unique from the fact that the sickness appeared in the hus band at such an early period of pregnancy Tno The urine had been examined sev- last time, the husband had daily morning attacks and the woman any other evidence that conception had taken place, and then she failed to menstruate The husband continued having the attacks for two months During previous pregnancies the husband had suffered from the same attacks, but not until they were

> WM GOODELL remarked that Sir Francis DRstance of which was that "loving husbands so sympa thize with their pregnant wives that they have morn ing sickness in their own persons " A writer in the Lancet, of May, 4, 1878, p 666, also refers to a case in point which occurred in his own practice. In this case the husband's nausea and vomiting began and ended with his wife's

> > (To be concluded)

GNYECOLOGICAL SOCIETY OF BOSTON

Stated Meeting, December 15, 1887 VICE-PRESIDENT H C WHITE, M D, IN THE CHAIR DR HELEN L BETTS read a paper entitled woman's dress, its relation to the etiology and TREATMENT OF PELVIC DISEASE

(See p 509)

At the conclusion of the paper Dr Betts exhibited The undergarments are in one piece, and waist accurately fitted to the figure, to which are but toned the skirts by a distinct row of buttons for each The waist-bands of the skirts are of the same length Shoulder straps for supporting the skirts will not take the place of the full waist, as by their use the weight is brought upon two small points and they become intolerable

DR É C KELLER said that it was possible for a woman to look as trim and neat in the dress recom

DR L F WARNER said that the paper was a good This was found, upon careful ex- one, and should be of great practical value His experience had been that it was impossible to secure any change in the manner of dress among women The constriction about the waist interferes with the return of blood from the pelvis, and leads to congestion with consequent enlargement of the uterus and other pelvic organs The corset presses these organs out of their natural place and relation and adds to the difficulty Children are, as a rule, well and strong until their approach to puberty is supposed to demand the use of corsets dress ruin nine-tenths of our young women. Women, as a rule, dress to outdress one another, but the men are to blame because they do not lend their influence in behalf of a more sensible and rational system of dress

work to secure any radical change of dress simply on the ground that the present modes are deleterious to that the new style of dress will improve the form we may be more successful

DR W S Brown said that the subject of the paper was new and important. He believed that the great expense was one great objection to the new mode of dress The "union" garment and others recommended are three times as expensive in this country as in England The nearer any the better it will be Dr Brown would not strive to secure a change in the fashionable mode of dress, of all classes so that work can be done without loss of strength There are many elements influential in producing the common ill health among girls indi school, all have their permicious influence, and the intestines vicious habits of dress may prove to be the last straw which breaks the camel's back

and Europe in regard to manner of life and habits The working women in foreign countries, as Germany, do not wear any such dress as the rural population in this country Foreign women wear boots and short skirts supported by broad hips The habits of outdoor work by women in this country have passed away, and the class of women corresponding most closely to the foreign peasant has sought to assume the dress of polite society, with all its faults

Dr Cushing believed the corset to be a classical garment, and that women would always wear some The veins of the pelvis are valveless death

dress was a matter of education on with the children and continue their style of dress tion of the appendix The expense of the new style garments is an objection, but it can be avoided with is to open the abdominal cavity and inspect the parts

MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA

Stated Meeting, January 11, 1888 THE PRESIDENT, THOMAS C SMITH, M D. IN THE CHAIR

DR J F HARTIGAN reported

These vicious habits of A SUCCESSFUL CASE OF DOUBLE LAPAROTOMY FOR SUPPURATIVE PERITONITIS, AND ON THE USE OF ARSENIC IN SEPTICAMIA

(See page 513)

DR J FORD THOMPSON This paper brings up a very interesting subject Sometime ago he reported DR A P CLARKE said that it would be up hill a case of typhlitis in which he made an artificial anus and subsequently closed it and the patient recovered Since then he has operated three times for typhlitis health, but that if we could persuade our patients and peri-typhlitis He had a few remarks to make about Dr Hartigan's case which in some respects is very remarkable. In reality there was nothing in the case except the opening of three abscesses. The disease began as a peri-typhlitis and was followed by pyæmia, parotitis and, finally, two abscesses in the It was a very clear history of bloodabdomen poisoning but it has been reported as a case of lapar-It is remarkable that the child should have style of female apparel approaches to the trousers had a peritonitis on one side of the abdomen and sometime after present as a peritoneal abscess on the opposite side There is no other explanation for but would aim to radically change the working dress this except that both were due to septicæmia Both were circumscribed collections of pus and were not general suppurative peritonitis The peritoneum is hable to be attacked in septicæmia Dr H only gestion, lack of proper nutriment, over pressure in washed out the abscess cavity and did not see the

DR HARTIGAN said he objected to the term abscess as the pus was in the abdominal cavity and if Dr T DR E W Cushing called attention to the radical has listened to the paper he would have learned that differences between the rural classes of this country he performed a laparotomy, which meant exposure of the intestines

DR THOMPSON said he thought he had listened very attentively and that Dr Hartigan did not say that the intestines were either seen or examined, and that when a surgeon examines the intestines he says But even if the intestines in this case were both seen and felt, he would still claim it as a peritonitis which was circumscribed Dr Hartigan seemed to hesitate about opening the abscess but he did not know why for every surgeon opens collections of such garment to support the breasts The human typhlitis is very important. He would refer to a re-The question of race is not yet entirely used to the erect posture cent case of his in which there was perforation and and the erect posture renders the return of blood a small opening and both recovered In the third more difficult. When a tight waist still further inter- he did the same thing and the patient died in a few feres with the circulation trouble is likely to result days. A systematic examination of the parts in DR ESTHER HAWAS believed that the question of volved is the thing to do and not be content to ess was a matter of education. We should keep evacuate the pus. The autopsy revealed a perfora-

success by directing that buttons be sewed on the involved. The worst practice in surgery is to wait for fluctuation Pus is usually present by the fourth

or fifth day of the disease when the incision should be made, the evenum and appendix should be exammed-and if the latter is ulcerated it should be removed and the intestines sewed-and the abscess cavity washed Sometime ago Dr Busey asked him saw her, her condition was about as follows Neither if there had been any reports where typhoid fever tenderness nor pain, there was absolute ease and ulcers of the intestines had been sewed time he knew of no cases He would now state that Morton recently reported three cases operated on in The general impression of those which all died present at the discussion was that the operation was sweat and very clammy Her knees and feet were scarcely justifiable in a subject who was already reduced to an extreme degree of debility by the primary disease Greg Smith reports six cases of laparotomy for suppurative peritonitis, and all recovered Smith contends that not only should laparotomy be performed for suppurative peritonitis, but all intestinal adhesions should be broken up before the abdomen is closed For this purpose he uses a fountain syringe (to which the small nozzle is attached) and carries it into the cavity and the stream breaks up the rupture or as soon after as possible fine adhesions.

DR Bush said that it was possible that he may have misunderstood Dr Thompson in saying that all cases of typhlitis and peri-typhlitis should be oper-connected with the condition of death and would ask ited on on the fifth or sixth day or later

Dk I HOMPSON "No earlier"

I hen I am to infer that we must cut in order to look for pus, or that these diseases always terminate in the formation of pus? If so, I take can anything be done to avert it? He had seen a issue with Dr I hompson A large number of such similar picture in a case of suppurative peritonitis cases will get well without suppuration. It is not always easy to make a diagnosis of the presence of pus, but there are other symptoms to aid us in mak- remedies are of no value because they will not be ing the diagnosis Where there is reasonable sus picion of pus we should operate In Dr Hartigan's case there were symptoms of typhlitis and peri-typhlitis followed by collapse which did not last longer than a few hours, some weeks afterwards pus was discovered in the left iliac fossa, and laporotomy was performed, several weeks later a second collection of pus was detected in the abdominal cavity on the right side, and a second laparotomy was performed Was the collapse the result of the bursting of pus If one waits for fluctuation there is no question about into the abdominal cavity? But the collapse occurred some weeks before pus was discovered in the abdomen

DR HARTIGAN The collapse occurred in the third week of the disease, in the seventh week there was rupture of an abscess suppuration of the parotid glands, three or four weeks later pus was discovered on the left side, and about the twelfth week pus was discovered on the right side

DR BUSEY Then it is still more remakable that in the tenth week suppurative peritonitis should have occurred without any inflammatory symptoms gave the details of a case that was not so promptly He had seen the treated, and the result was death case in consultation on the 9th inst The lady, 20 years old, three weeks previously had attended a The case should be operated on before the detection party and eaten freely of such articles as are usually of pus by fluctuation The same night she was seized eral symptoms if not by local served at parties with acute pain, vomiting and tenderness over the The diagnosis of typhlitis was made the case of typhlitis or peri-typhlitis should be operated abdomen

next day by the attending physician and the case was treated as such cases usually are On the 8th she was seized with a darting pain which radiated from the right iliac region On the 9th, when he At that comfort, the temperature was 100°, respiration 36, pulse could not be counted Her intellect was bright and she was cheerful and remarked that she was "getting well fast" The skin was drenched with He expressed the opinion that she was then dying, but if not an operation was imperative There was no doubt in his mind that general penton itis or a ruptured abscess had existed from the even ing of the 8th when she felt the acute radiating pain extending over abdomen-most intense between en siform cartilage and umbilicus Opiates were freely used, which was followed by absolute comfort This would have been a case for operation at the time of This patient died This was undoubtedly a case where the evacu ation of the pus was delayed too long

He would call attention to a chain of symptoms whether the surgeon was justifiable in operating when he believed the patient was dying, or might die on the operating table or very soon after leaving it Can we determine when death has begun, and if so several years ago and later another of rupture of the gall-bladder When the process of death begins In cases similar to the one observed is it absorbed the surgeon's imperative duty to operate even if death has begun? In many cases the operation is delayed too long The difficulties are in making the Do not wait too long for pus But cases diagnosis He was glad are often cured without operations that Dr Hartigan's case terminated so favorably

DR THOMPSON If there has been any advance ment in surgical procedure it is in operating early the proper treatment In typhlitis and pen typhlitis we should operate early In Dr Hartigan's case there were symptoms of peri-typhlitis in the first week and then collapse that Dr Hartigan explains by the The early operation is the recognized surgical procedure of to-day Operations for fluctuation is not an early operation for there is no doubt about what to do The surgeon evacuates pus whenever and wherever he finds it In typhlitis and peri-typhlitis there is usually a circumscribed swelling and there is pus on the fifth day When there is any doubt aspirate Morton would not use the needle but would proceed at once to perform laparotomy If he found the vermiform appendix ulcerated he would cut it out and sew up the wound

DR Busey wished to combat the idea that every

He does not oppose an operation when it is necessary It may be advisable to operate before fluctuation but certainly not in every case When there is a liability to suppuration and there is an increasing intensity of the symptoms, whether fluctuation is detected or not, there is a strong possibility

DR THOMPSON The operation should be performed on the fifth or sixth day, and it is frequently demanded before there are any well-marked symp-

DR HAMILTON In inflammation there is during the first stage an exudation We may anticipate the suppuration by evacuating the exudate In cellulitis of the leg there is an exudate, and if free incisions philosophy of Dr Thompson's statement

DR HARTIGAN If Dr Thompson had followed me he would not have confounded his figurative case

with mine

Stated Meeting, January 25, 1888

VICE PRESIDENT, SWAN M BURNETT, MD, IN THE CHAIR

DR R T Edges read a paper upon and presented a specimen of

LARGE CELLED SARCOMA OF THE LUMBAR VERTEBRÆ

Attacks of supposed sciatica for some years Par-Extreme pain on movement aplegia dolorosa Curvature at level of last dorsal and first lumbar vertebræ Tumor in the back Vomiting Dilatation of the stomach Destruction of the bodies of the second and third lumbar vertebre by a giantcelled sarcoma which also formed a large tumor on each side of the vertebral column

A married woman, 35 years old, had a difficult labor with her only child, now 7 years old Soon after she had a tender spot in her back Four or five years ago she had some attacks of sciatica, lasting a few days, which early in 1886 began to be more severe and continuous In May she went to New York to consult a physician, but when she arrived the pain disappeared, so that she went shopping and to the theatre instead The pain soon returned, however, attended with numbness and uncertainty of gait

In September, 1886, she entered the Homeopathic Hospital in Boston Late in that year her husband was informed of a curvature of the spine which, however, the physicians said they had been aware of since September, but as it was not painful and was only slight, it was supposed to be congenital or due to an A fulness in the side was noted at the old caries

During a part of the time she was in the hospital she was able to walk about and ride out, but in No vember she had to get up very carefully On December 9 she was moved from one bed to another and

tions of improvement and the reverse, but with the In June last the swellbalance on the wrong side ing in the left back below the rib was punctured, but only a few drops of pus obtained Attempts were made to fix the spine by apparatus, but it could not

When first seen by me, in October, she had been in bed nearly a year She was greatly emaciated, but no more anæmic than would be expected from her condition, and there was nothing to indicate the socalled cancerous cachexia Her lower limbs lay almost motionless, supported and protected with the There was a little movement of the greatest care toes and feet possible There was great pain about the hips and running down the legs, which was greatly are made we can prevent pus formation This is the aggravated by the slightest movement and often by the slightest pressure, or even contact The sciatic, and sometimes the anterior crural nerve on the right side, were painful on pressure, and at times the whole surface seemed hyperæsthetic Movements of the arms perfect but often painful There was a bed sore over the sacrum, and to dress this and change the bedding she was several times etherized and raised, this procedure being followed by extreme pain lasting for hours

The functions of the bladder and rectum were sluggish, but there was no loss of control Appetite and digestion fair, but considerable trouble from con-

stipation and flatulence

The urine at times contained a large amount of phosphate and carbonate of lime, with mucus and no Once an excess of indican was noted There was at no time any fever

For several weeks she improved considerably and got a very good appetite, with less constant pain down the legs and less tenderness She used a little morphine, on one or two nights none at all, and some

On the night of December 20 she took antipyrin for the relief of pain, which gave her a good night and no nausea During the forenoon of the next day she began to vomit a greenish and brownish fluid which after more than twenty-four hours became stercoraceous in smell I found the bacteria of putrefaction therein The abdomen became tense and tympanitic at the upper part, the vomiting was relieved by nothing but morphine, and she died while partly under its influence

The autopsy showed the stomach to be greatly dilated, sagging down nearly to the pubis, half filled

with a brownish fluid and much gas

There was nothing remarkable about the appearance of the liver, spleen or intestines The ureters passed over the surface of the tumors soon to be described, but they were nowhere either strictured or dilated In the right kidney was a little turbid fluid, one stone as large as a small chestnut and a good many smaller ones, otherwise both were healthy

The specimen before us consists of the last dorsal and what remains of the three upper lumbar vertethen became almost completely paralyzed, and soon bre, sawn longitudinally The left side is preserved after completely so in the lower limbs There was, whole, with the exception of a little dissection to however, soon some improvement in the movements show the extent of damage done to the bone of the limbs Trom this time she had her alterna- right side has been macerated and cleaned

On both sides we have the last dorsal vertebra mtact

The first lumbar is little affected on the right side except two little spots of crosion of the body the left the transverse and articulating processes have disappeared and are replaced by this soft reddish The second lumbar has almost entirely disappeared, nothing remaining but a thin, gritty lamella between two fibro cartilages which are displaced is known to be present elsewhere, the existence of but not destroyed, and a little piece of the end of the spinous process connected with the supra-spinous ligament

The third lumbar is represented as to its body by this reddish pulp between two fibro cartilages, and by the whole spinous process and some fragments of the

articulating processes on each side

the first and fourth, the other two being represented

only by a few fragments

A new growth occupies the angles formed by the sliding back of the first vertebra, and similar growths between and croding the arches encroach on the bed, while at the same time no fever is present, is The narrowest point is just below the somal canal termination of the spinal cord, so that it was not pressed upon, and there was enough room left to permit the passage of the cauda equina, which appeared to the naked eye normal On each side and motion, reflexes, and so on, or to palpate more deeply closely connected with the bone is a large rounded the abdomen, which in this case would have undoubt tumor, as large as one fist on the right side, and two It is this latter which pressed fists on the left through below the rib and was felt during life Upon its posterior surface is a mass of inspissated blood, in its outer margin are calcified patches tral portion of the growth seems to be situated beneath the periosteum

There were no secondary growths found and no By madvertence the enlargement of the glands

liver was not incised

The structure of the new growth is that of a giant-

In the Boston Med and Surg Journal I published several cases of malignant disease of the vertebræ with painful paraplegia, of which I will here refer to only one, which was that of a man of 55 with many symptoms like those in the case just described great pain on turning in bed, pain in the legs, inability to walk, with no distinct paraplegia, but general loss of strength in the lower limbs

The growth was here also connected with the body of the second lumbar vertebra, implicating to some extent the first and third, though the tumors outside were much smaller than in the case before us

was a round-celled sarcoma with giant cells

In the other cases the disease was more extensive After malignant disease has invaded the vertebræ, usually the lumbar, the symptoms are about the same whether it be a sarcoma or a carcinoma, and the cases just described may be considered fairly typical

In another point, however, they differ, in that the of reported cases the starting-point has been the generally administers an emetic, preferably the mammary gland. A case which countries to be a starting-point of the starting-point has been the generally administers an emetic, preferably the mammary gland. ary to a similar growth elsewhere In a large number in this affection mammary gland A case which seems to be an ex- powder of ipecacuanha He then gives from 9 to

ception to the first part of this rule was reported by Dr Kempe, where a lady had had a cancer of the breast removed by a member of this Society (Dr Garnett), and afterward died after symptoms similar to those already described The secondary growth in this case was pronounced alveolar sarcoma

The diagnosis of this affection is likely to be ob scure, especially in its early stages When a cancer severe and persistent pain in the nerves of the lumbar or sacral flexures or both, is a very suspicious circumstance

When there is no primary cancer, the diagnosis between this disease and caries may be for a long time in doubt, and the existence of curvature, and even of a tumor, does not at once clear it up A In the macerated specimen the two vertebre are large flattened tumor without tendency to pointing would, as in this case, be in favor of a neoplasm Setting aside these, which may almost be called acci dental aids in the diagnosis, I think that the extreme and continued pain on turning over or sitting up in somewhat characteristic, as distinguishing it on the one hand from carres and on the other from any sim In some cases it may be pos ulated spinal disease sible to investigate more closely the condition of edly disclosed the presence of the tumors in the cavity

The explanation of the sciatic and crural pains in the pressure exercised on the nerves, both within and without the spinal canal, is too obvious to need more than mention, but it should not be forgotten that an actual myelitis may result from the pressure, as in This is not, how one of the cases reported by me ever, one of the most usual results, probably for the reason that, as the lumbar vertebræ are the place of election of the new growths, the narrowing takes place below the cord In other cases, even when the bones of the dorsal vertebræ are extensively dis eased, the softening proceeds with comparatively little encroachment on the calibre of the spinal canal

CORRESPONDENCE. FOREIGN

LETTER FROM PARIS

(FROM OUR OWN CORRESPONDENT)

Chloral in Diphtheria-Carbolic Cauterization in Diphtheria-Antiseptic Properties of Carbolic Acid -Sodic Salts in Gynecological Practice-Congress for the Study of Tuberculosis

Various remedies have been employed in the treatment of diphtheria, but the cures are not in proportion to the remedies vaunted a paper read by him at a recent meeting of the Société de Thérapeutique reported that he had obnoma is usually and, so far as I know, always, second-tained very excellent results from the use of chloral arm to a similar growth cleanbare. The land to a similar growth cleanbare.

spread of experimental tuberculosis The action of surgical therapeutics in tuberculous affections Medical men of all nationalities will be admitted to the congress All communications concerning the congress should be addressed to Dr Petit, General Secretary, 11 Rue Monge, Paris Subscriptions to be sent to M G Masson, Treasurer, 120 Boulevard St Germain, Paris

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FRO I OUR OW I CORRESPO . DEL T)

Diagnosis and Surgery of Cerebral Tumors—Therapeutics of the Upper Air passages, and the Use of Patent Nostrums and Proprietary Medicines-Complete Apnonia-Saccharinate of Cocaine

In summing, before the Academy of Medicine, up the results of the operation for cerebral tumor performed by Dr Weir on November 17 (the operation During the operation great trouble was expenenced is more particularly mentioned in the editorial article on "Surgery of Cerebral Tumors," p 525), Dr Seguin said that the man's life had been unquestionably prolonged by it, and that his general condition went to show that there had been as yet, apparently, no new growth of the sarcoma He thought that when the patient had completely recovered from the effects of the attack of malarial fever many of the symptoms would show considerable improvement as compared with the present

He then rehearsed the symptoms indicating whether a tumor was probably situated in the cerebrum or not, and gave the bases upon which a diagnosis of the topographical location of cerebral tumors Having called attention to the importance of the distinction made by Brown-Séquard more than thirty years ago between irritative and destructive lesions, as indicated by the symptoms, he stated that spasms resulting from cerebral tumors often involved at first but a very small area, although the attacks were liable afterwards to extend to typical It was therefore of great epileptiform convulsions assistance to secure, if possible, an exact account of the first spasm, which might properly be called the In the next place, it was desirable signal symptom to ascertain whether the tumor was cortical or sub-This was often extremely difficult, and little light was thrown upon the matter by the author-Deductions could be drawn sometimes, however, from the nature and location of the signal symptom, and the presence or absence of localized As to the evidence afforded by local temperatures, not much reliance could as yet be Whether an operation was advisplaced upon this able in any given case would depend largely on whether there were more than one, as indicated by The presence of dysphagia would go the symptoms to show that there was a lesion of the medulla obloncations of tubercle or cancer in other parts of the time, and in order to facilitate the process of healing body it was undesirable to operate

Dr W W Keen, of Philadelphia, who, like Dr Godfrey, of Bridgeport, was present on this occasion by special invitation, gave an account of a successful case of his own (referred to by Dr Weir), which has as yet not been published in full The patient, who was 26 years of age, fell from a window when 3 years old, his head striking on a brick A superficial wound was made, but no trouble was experienced from the injury until he was 23, when epilepsy developed This was associated with asphasia and paralysis of the right arm and leg No history could be obtained, however, of any signal symptom, such as Dr Seguin had spoken of Later there was complete recovery from the paralysis and aphasia The operation was performed December 15, 1887 Instead of marking upon the skull with a colored pencil the spot where the opening was to be made, as had been done by Dr Weir, he gouged out a little piece of bone at a point corresponding with a slight scar which was presumably left by the injury to the head received when the patient was 3 years old The tumor re moved measured nearly three inches in its long axis from hæmorrhage, due in part to the extreme friability Hæmorrhage was controlled partly of the vessels by hot-water, partly by ligation, and partly by pres In tying a vessel it was found that if one end of the catgut was pulled at all more strongly than the other the ligature would invariably cut through, 50 that absolute equality of traction was required in order to accomplish this successfully The hot water employed was of a temperature of from 120 to 130 Dr Keen said that he regretted that pre degrees vious to the operation he had not administered a dose of morphia, as recommended by Horsely, for the purpose of diminishing the supply of blood to the parts In another case he would also be inclined to give ergot and perhaps antipyrin, and he preferred to use cocaine locally if occasion required Such agents he thought afforded a much better chance of controlling hæmorrhage in this class of cases than the mechanical means commonly resorted to During the operation he did not use the spray, but made use of all the other ordinary antiseptic precautions

The patient did perfectly well for the first few nours after the operation On the third day marked symptoms of pressure showed themselves, and this was ascertained to be due to the presence of a large clot, of greater size than the tumor had been This was removed by careful washing, and all went well for ten days, when pressure symptoms were again There was also severe diarrhæa, and a observed Under the circum temperature of 104½ degrees stances the presence of pus was suspected, and the wound was accordingly reopened Afterwards Dr Keen regretted having done this, as it resulted in hernia cerebri, and he became convinced that the unfavorable symptoms noted were largely due to the Later the patient had two or three other attacks of diarrhoea (less severe than the first), which were also accompanied with more or less rise in tem The hernia remained for a considerable

effect upon the system, the diarrhoea in Dr Keen's the healing was going on the surface remained considerably elevated, but when the cicatrizing process had been completed it suddenly became concave, instead of convex, and had so continued ever since Photographs were exhibited of the hernia cerebri binated bones and of the wound when healed

In conclusion, he spoke of the importance of completely shaving the head, for purposes of examination, of every patient in whose case there was any braintrouble likely to call for operation, and said that in a case of epilepsy which had recently been referred to sary to produce a suitable psychical impression upon him two scars were discovered when the scalp had the patient been shaved

At the meeting of the Section on Laryngology and Rhinology of the Academy of Medicine, in March, a discussion was announced on "Therapeutics Applied to the Upper Air Passages, with special reference to the use of Patent Nostrums and Proprietary Medicines by the Laity and Profession" It was to be led off by a paper by Dr F A Castle, on "Facts and Fallacies in the Use of Nostrums," disappointment of the members of the Section, contented himself with mere general observations on reference to the special preparations employed in agents was sometimes required diseases of the nose, throat and chest, the discussion took a different turn from that contemplated, and the principal paper of the evening

In the course of his paper Dr Castle very truly ries or other organs remarked that so far as the relations of the profes was concerned, the less regular physicians had to do with remedies about which they knew nothing, the better would it be for themselves and patients So far as the laity was concerned, any repressing power were but few nostrums their use had been too much encouraged by certain members of the regular profession, and at the present time the public were apt to believe that physicians were prompted by a feeling of jealousy in condemning such remedies, so that there must be some good in them or they would not be so ready to disparage them

The Chairman of the Section, Dr O B Douglas, presented a case of complete aphonia, in which seventeen, apparently in robust health, and in whom death on that day at 2 45 PM

was drained by bichloride gauze for eight weeks, but During the last four months there had been gradthere was no evidence of its producing any toxic ually increasing aphonia, and this was now complete On making an examination of the patient Dr Dougopinion not being attributable to this cause While las found that the tonsils were enlarged, that there was a hypertrophied condition of the inferior turbinated bodies He had removed the tonsils, without any effect upon the aphonia, but had not as yet operated upon the hypertrophied ends of the tur-

Dr W B Jarvis thought that the case was perhaps one of functional or hysterical aphonia said he had met with three or four such patients, and that in this class of cases the prognosis was always good, as, in order to effect a cure, it was only neces-

Dr Beverley Robinson said that personally he should be somewhat loath to class what seemed to him paralysis following diphtheria, as a functional affection He had occasionally met with more or less aphonia, or rather dysphonia, as a result of diphtheria It was, however, usually associated with some difficulty of deglutition, which, according to Dr Douglas' account, was not present in this in-The aphonia here he believed to be due to stance but, owing to the fact that Dr Castle, much to the an impaired state of the nerves supplying the vocal apparatus, although we might not be able to distinguish the exact condition present. In such cases a patent and proprietary medicines, with scarcely along course of treatment with electricity and other

Dr Castle said that possibly some light might be thrown on this case by a paper published by Dr was confined to the legitimate means and methods Echeverria, about twelve years ago, in the New York employed by the regular profession in diseases of Medical Journal, and also by one that had appeared the upper au-passages, the ground gone over being later in the "Transactions of the American Gynecofor the most part much the same as in the discussion logical Society," in which similar conditions were before the Academy last year on the modern treat-recorded as being due to reflex paralysis, and as bement of these affections, when Dr Bosworth read ing relieved by making a decided impression upon the mind or by local treatment directed to the ova-

Dr Andrew H Smith then presented a specimen sion to patent nostrums and proprietary medicines of a new preparation of cocaine, which he had found of service for local use in the throat This was the sacchar mate of cocame, in which the sweetness of the saccharın disguised the disagreeable taste of the cocame, which made it especially applicable in the that the profession might once have possessed was case of children He said it was 25 per cent less now entirely gone. One trouble was that when there strong than the hydrochlorate of cocaine, and a 5 per cent solution of it would, therefore, be equal in strength to a 4 per cent solution of the latter

PBP

NECROLOGY

CORNELIUS REA AGNEW

After the publication of the editorial page conthe diagnosis was involved in considerable ob- taining the notice of the illness of Dr Agnew the The patient was a young woman of afternoon papers of last Wednesday announced his no local condition could be found to account for health until a little more than a week before his the loss of voice About a year ago she had an at- death On Monday, April 9, he was in consultation tack of diphtheria, and previous to this there was at in the case of the late Mr Conkling, and at that one time some enlargement of the thyroid gland time was not feeling well. When he returned to his

door recreation and protection from invalidism? Cannot the same skill contrive new designs for the upper and most salutary stories of our dwellings, playing 100ms and sunning rooms, especially adapted for the winter season, but so eleverly fashioned that too intense torrid beams can be excluded in summer? The "solvinum of the New York Hospital, made attractive with its plants, birds, and aquaria, is a potent ally of therapeuties in restoring the convolescents, and at the Hospital for the Relief of the Ruptured and Crippled, the contagious sparkle of the sunbe un is found shining in the eyes and lives of the young pa tients. Physicians not infrequently have occasion to observe the arrangements and conditions of the upper floors in our first class private dwellings, for if a servant is sick, the family physician may be summoned to attend. The conditions may not be abso lutely permicious, but the space on these precious stories might be utilized in a much more healthful and attractive way he ited and vitiated air from the lower part of the house rises to the top floor, with perhaps slight provision for its exit, and here are found servants' and storage rooms and also often a dark closet with precipitous ladder, leading to the scuttle, rarely en tered and ascended, except by workmen to repair the roof Apartments for domestics have to be provided for, but quarters for trunks and unused articles rather than occupying choice space, could be centralized in the building, be lighted from above, or religated to some special annex in the yard -Medical Record, April 21, 1888

THE MICHIGAN STATE MEDICAL SOCIETY will hold its twenty third annual meeting in Detroit, Thursday and Friday, June 14th and 15th, 1888, beginning at 10 o'clock in the morn ing Spicious halls for general Session and Sectional work have been engaged in the new and elegant Cowie building, which is centrally located, easy of access, and opposite the Public Li At the last annual meeting the following amendment to the Constitution was adopted
"To establish three sections in order to facilitate professional

and scientific work, viz A Section on Medicine

A Section on Surgery

A Section on Midwifery and Gynecology

These sections shall hold their meetings in the afternoon, and the Society shall meet in general session in the forenoon of each

day "

Members desiring to read papers are requested to communi cate with the Secretary of the Section in which he desires his paper to appear, sending him the title and abstract of the same not later than June 1st. This is necessary in order to group the not later than June 1st papers appropriately and secure their proper discussion names of the Secretaries are as follows

Practice of Medicine, H B Hemenway, Kalamizoo Surgery, F W Mann, 250 W Fort St, Detroit Obstetrics and Gynecology, C Henri Leonard, 18 John R

St, Detroit

and went to Europe for special study in order to fulfill the conditions of the appointment first to Dublin, he became a resident pupil of the p Lying-in Asylum, and attended the eye and ear clinics of Mr, afterwards Sir William Wilde Dublin he went to London, to be with Bowmann and Official List of Changes of Stations and Duties Of Medical Officers of The U S Marine HOS OF MEDICAL OFFICERS OF THE U S MARINE HOS OF MEDICAL OFFICERS OF THE TWO WEEKS ENDING APRIL 21 1888 Velpean and Ricord, in the eye and ear clinics of Surgeon W H H Hutton, to proceed to Biloxi, Miss, on special duty April 21, 1888

MEDICAL WOMEN IN LONDON —A Miss Macdonald, having completed the recognized course of a medical school, has been dmitted by the Society of Apothecaries to examination for its liploma in medicine, surgery and midwifery

THE AMERICAN ASSOCIATION OF GENITO URINARY SUR-SEONS will hold its next annual meeting it Washington, D.C., September 18, 19, and 20, 1888. Secretary, R. W. Taylor, 40 West 21st St, New York

THE AMERICAN SURGICAL ASSOCIATION will hold its next annual meeting in Washington, D. C., September 18, 19, and 20, 1888 J. R. West, M. D., Richmond, Ind., Secretary

VON LANGENBECK'S LECTURES will be published as soon as possible, under the editorship of Professor Gluck

WESTERN RESERVE UNIVERSITY will, beginning next Au tumn, require attendance upon a three years' graded course

NEW BOOKS RECEIVED

"Ophthalmic Surgery," by Robert Brudenell Carter and William Adams Trast Illustrated with a chromograph and 91 engravings Philadelphia Lea Bros & Co

"Journal and Proceedings of the Royal Society of New South Wales, December, 1887" Vol xxi, Part III
"Bruck's Guide to Health Resorts in Australia, Tasmania and New Zealand"

"A Manual of Diseases of the Nervous System," by W R Gowers, M D, F R C P American edition, with 341 illus trations Philadelphia P Blakiston, Son & Co

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM APRIL 14 1888, TO APRIL 20 1888

Major Geo M Sternberg, Surgeon, having been instructed by the President to proceed to the Island of Cuba for the pur pose of continuing his investigations of the methods of pre venting the spread of epidemic diseases, will, in connection with his present duties, report to the Secretary of the Treas ury for further instructions S O 89, A G O, April 18,

Capt Clarence Ewen, Asst Surgeon, granted leave of absence for six months, with permission to go beyond sea S O 85, A G O , April 13, 1888

CHANGES OF STATION

Capt Wm H Arthur, Asst Surgeon, ordered from Ft Ning ara, N Y, to Ft Bowie, Ariz, to take effect on the expira

tion of his present leave of absence

First Lieut Chas S Black, Asst Surgeon, ordered from Ft
Davis, Tex, to Ft Sidney, Neb S O 86, A G O, April

14, 1888
First Lieut Wm D Crosby, Asst Surgeon, ordered for duty at Jefferson Bks, Mo, after being relieved by Asst Surgeon Wm H Arthur, and upon the expiration of the leave of absence granted him in S O 60, A G O, March 14, 1888 S O 86, A G O, April 14, 1888

APPOINTMENT

Ogden Rafferty, to be Asst Surgeon, with rank of First Lieut, March 26, 1888

PROMOTION

Capt Joseph B Girard, Asst Surgeon, to be Surgeon, with the rank of Major, March 22, 1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U S NAVY, DURING THE WEEK ENDING APRIL 21 1888

Medical Inspector A C Rhoades, detached from special duty, New York, and waiting orders

A Surgeon L G Henneberger, detached from Naval Hos pital, N Y, and to special duty attending officers and fami lies, New York

special duty April 21, 1888
Surgeon W H Long, granted leave of absence for fourteen days April 21, 1888
Surgeon H W Sawtelle, granted leave of absence for seven surgeon H W Sawtelle, granted leave of absence for seven for the control of the contr

days April 21, 1888

P A Surgeon F M Urquhart, granted leave of absence for P A Surgeon F M Urquhart, granted leave of absence for P A Surgeon days April 10, 1888 To assume temporary charge seven days April 10, 1888

seven days April 10, 1888 To assume temporary charge of Cape Charles Quarantine Station April 17, 1888

A Surgeon J H White, relieved from quarantine dutie at Sapelo Station April 21, 1888

A Surgeon L L Williams, relieved from duty at Marine Hospital, Boston, Mass, to assume charge of Cape Charles Quarantine Station April 17, 1888

Quarantine Station April 17, 1888
A Surgeon W D Bratton, relieved from duty at Marine
A Surgeon W D Bratton, relieved from medical officer,
Hospital, San Francisco, Cal, detailed as medical officer,
Revenue Str "Bear," during summer cruise April 19, 1888

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

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CHICAGO, MAY 5, 1888

No 18.

ORIGINAL ARTICLES

NOTES ON A FEW CASES IN WHICH THE ELEC-TRO-STATIC REMEDY WAS USED

Read before the Medical Society of the District of Columbia, February 1, 1888

> BY IRVING C ROSSE, M D, OF WASHINGTON D C.

My apology for naming static electricity in connection with the desultory remarks about to follow, must be the fact that the use of Franklinism in neurological therapeutics is comparatively recent, and that the physicians of Washington have not given the failure subject the attention it merits The simple reason more perfected machines has yet brought the matter before this body in such a manner as to elicit dis-

More than one medical man has said to me "Oh, I don't believe in electricity, I have tried it and can get no results" Further conversation revealed the fact that these skeptics had, to say the least, but differential calorimeter, and static electricity was to to the delectation or benefit of such a grade of deinterpretation of any medical fact, and it would be an insult to your intelligence to presume for a moment that any of you are so lacking in this regard, or that most of you are unfamiliar with the current literature of static electricity, more particularly as it has appeared in the journals for the last few years

My attention was first directed to this subject while pursuing a neurological course under the tui tion of Prof William A Hammond, when my friend Dr W J Morton, of New York, kindly gave me the benefit of an experience that was subsequently extended at the Post-Graduate Medical School Morton's admirable paper, read before the Academy of Medicine not long ago, is a great advance and development of the ideas of Franklin, and it did much to give vogue and therapeutical standing to this valuable agent Since then numerous writers and experto bring this form of electricity into disrepute—has and vesical and rectal disturbance now been so far improved and perfected as to secure

the maximum of tension and quantity, and at the same time the machines are so little hygroscopic as to work in all conditions of the atmosphere As I do not wish to occupy time and attention by further reference to details that are doubtless familiar to you, I shall confine myself to the brief mention of a few cases selected at random from a considerable number that I have treated, and if the comments thereon should appear rambling and disconnected, I must anticipate the criticism with the excuse that I have merely noted the thoughts that were uppermost and most engrossed my attention at the time the cases were under observation

Those mentioned in the first group are recitals of It may not be pleasant to record one's failures, but in the interest of truth and wisdom it must for this neglect is that no one skilled in the use of the be done, since the interpretation of a negative is often more instructive than that of a positive result

In September, 1885, there came under my notice a man of 38, who during five years had been treated for rheumatism, impaired eyesight, and general de-The symptoms were first noticed in China, where his tabetic walk often subjected him to the imputation of being drunk, though perfectly sober He cloudy notions of the difference between a galvanic complained of sharp darting pains, from the small of and a faradic battery, they had never heard of a his back to the soles of his feet, in which were sharp tingling pains and a feeling as if the toes were too them a sealed book My remarks may not accrue large for his shoes, of a sense of tightness around the waist, of dizziness, of trouble with his throat, velopment, for it is one not likely to make a correct and occasional spells of vomiting The patient had a history of syphilis, and his alcoholic and nicotinic habits were bad

There were no objective manifestations of rheumatism, but the patient was unable, on closing his eyes, to touch designated points of his body with the index finger, or to stand or walk without staggering, and the knee jerk was absent In brief, he showed the typical sensory, motor, and cerebroscopic signs of that form of dorsal tabes generally known as progressive locomotor ataxy

Treatment availed but little in this case, and the patient went on from bad to worse

The same may be said of a case of antero lateral sclerosis which was left under my care in August, 1886, for a month, during the temporary absence of another physician In this case the symptoms, both sensory and motor, were most apparent in the lower imenters have taken up static electricity The style extremities, being manifested by exaggeration of the of machine-tormerly so defective in construction as patellar tendon reflex, the presence of ankle clonus,

Negative results were also obtained in the case of

a woman of middle age, who consulted me in Febrnary, 1887, and who for several years had suffered from the effects of an obliteration of one of the cerebral arteries, one of the results being left hemiplegia

Another patient, past the meridian of life rather from physiological than chronological cause, and suffering from impotency, was taken in hand on February 23, 1887 materially improved

On October 1, 1886, I began the use of static electricity in a case of ovarian insanity After a month's treatment I was obliged to admit to the patient's standing at only 60° friends that I could do her no good

married woman, who came under my care in December, 1886, I also used the static current She ultimately recovered, but I attribute the cure rather to tended by serious results in a more southern latitude the means taken to improve her general health and to removal of the constipation and menstrual irregularity from which she suffered

For fear that further recitals of the foregoing character may convey the impression that failure is coextensive with success in the matter under consideration, I will now mention a few other cases in which the results of treatment were of a happier nature

In March, 1887, I was consulted by a delicate woman, the mother of a family period of the menopause, but complained much of fort her general health and of insomnia Her principal trouble was a disturbance of the thermogenic function, the sensation of cold in the extremities being so severe at night that she was obliged to resort to various artificial means in order to bring about sleep

This sensation in reality was not accompanied by loss of heat, the symptom being purely subjective, and one of evaggerated sensibility to cold owing to inability on the part of the nervous system to make an instinctive comparison between two mesological conditions, or, in other words, a disturbance of the Even in a state of health an thermic sensibility mability to make a correct comparison of this kind, as we know, gives rise to the incongruity existing between heat and cold as experienced by the human body and the actual temperature as revealed by the Travelers and experimenters having thermometer often noticed that these sensations are not absolute, it is proposed to differentiate the phenomena as physical cold and physiological cold, the former indicating that revealed by the thermometer or calorimeter, the state of the organism and other individual conditions latter that of a purely subjective nature and not indicated by instruments

If not straying too far away from my subject, I shall ask your indulgence to relate some personal experiences in which these relative sensations were observed by me in different latitudes I have seen the decks covered with snow and hail, pernicious fewer or the lowering of temperature durvoyage to the Siberian Arctic in the middle of July, that was accompanied by a bitter cold wind that pen- ing the sensation of heat that accompanies the reacetrated one's winter clothing, and a few days after- tive stage of a cold bath. On the other hand, in wards, when the thermometer registered but 45 F, locomotor ataxy with greatly diminished sensibility, the heat was extremely uncomfortable the latter part of June at St Michael's, Alaska, the sun was almost overpowering, although the thermom- | 1011 Sciences

eter registered but 60° F In striking opposition to this is the piercing cold that I have experienced on being exposed to a "Levanter" in the vicinity of the Mediterranean Straits off the coast of Morocco, and to Texas northers, during the continuance of which the cold is felt more acutely than it would be in the Arctic regions This phenomenon is also noticed After a month's treatment he was not among the Andes in Peru A disagreeable sensation of cold not indicated by the thermometer is one of the experiences of travelers in that part of the world, the cold being keen and penetrating with the mercury

Numerous instances might be cited in which Arc In a case of religious melancholia in a young un- tic travelers have noted such relative sensations, as well as the impunity with which they have exposed themselves to a low temperature that would be at After supporting cold of — 47° F the sensation of — 29° or 24° is an agreeable one Dr Hayes relates that in Greenland he went swimming in a pool of water on the top of an iceberg. The captain of a New Bedford whaler has often gone swimming off the coast of Siberia On one of the physiologically warm days that sometimes occur in high latitudes, I plunged in the icy waters of Kotzebue Sound, and after the momentary sideration that accompanied the She had passed the shock had passed away there was no great discom The swim was, moreover, followed by a pleas urable reaction

The physiological action of cold upon the nervous system deserves a more prominent place, since it is through the nervous system that results the instinct ive comparison of heat and cold Moreover, sensa tion as regards cold is not always accompanied by That it may be purely subjective, not loss of heat only in disease but in health, it is the object of this digression to set forth "

The second case coming under my observation in which there was a more marked subjective sensation of cold unattended by any objective manifestation, was that of a neurasthenic theological student who complained of a feeling of icy coldness in the right hand and lower half of arm Why such a sensation should exist without the appreciable subtraction of In the human species heat I am at a loss to explain the sensation caused by the absence, loss, or diminu tion of the mode of motion known as heat does not follow the oscillations of the exterior temperature as a grapevine or a marmot, but is dependent upon the A common instance of this condition is seen in the cold stage of intermittent fever, which shows an ele vation of temperature much above the normal, not only during but preceding the appearance of the The sensation of cold in other cases is not On a polar produced, in spite of real and progressive cooling of the body, such as is noticeable in the algid attack of Again, in patients have been known to be unable to wash in

I See writer's article on Cold in the Reference Handbook of it- Med

cold water without experiencing the keenest pain, a piece of ice placed on the skin of the trunk causes or cirrhosis of the liver and chronic nephritis subjective chilliness following doses of aconitia abolishment of the sense of cold occurs in some swimmers accustomed to passing long hours in the indirect or quite accessory fact water, and the mind also makes the body less sentions, or derangement religious devotees, in delicate women who, through vanity, forget their habitual sensibility to cold and expose the neck and shoulders to freezing temperatures, and in the insane, who often go stark naked in winter without being affected by the cold

I shall leave it to others to trace the relativity of the foregoing remarks with the cases in question, and will state that the perverted thermic sensations were the electro static remedy, the immediate effect of which was to cause increased sensation of heat and slight diaphoresis when applied by insulation and

sparks

Other cases in which static electricity acts with a promptness not procurable by any other remedy are those of myalgia, subacute or chronic rheumatism, gout, and inflammation of the neurlemma of the sciatic nerve I have in mind numerous cases of such that she has nothing to complain of what are popularly known as stiff neck, crick in the malady to cold, the morbific influence of which, by the way, is greatly exaggerated not only by the laity but by physicians themselves, who attribute so many almost be to repeat the nosological table Many this agent in reality takes no part or is only an ac-Many old and even some contemporary authors rank under the head of maladies from cold such general diathetic diseases as gout and rheumatism, and speak of the latter as a prominent disease of cold countries, when, as a matter of fact, rheumatism in India and Egypt, but not in the polar regions nearly all over the globe, show the truth of this as- discharged cured Take a single instance At Nova Scotia a proportion of 30 cases of rheumatism to the 1,000 the Cape of Good Hope there were 57 in the 1,000 On two successive voyages to the Siberian Arctic I have not met with a single case of bronchitis or rheumatism or even a common cold except among Eswell as white men During the last tew years circumpolar parties have escaped all sickness, and difficulty in evacuating the contents of his bladder sledging expeditions have been exposed to continuous cold of -50° with no great inconvenience

but to speak of it as a pathogenic cause is just as and subsequent discomfort Sometimes in myelitis absurd as to say that cold causes typhus and scurvy, a disagreeable burning sensation I know of a case cause of disease or of death cold no doubt brings us of neuritis in which the application of hot water pro- into the presence of a great number of affections, duced a sensation of cold Most of us know of the yet we may eliminate many diseases, the origin of An which is improperly attributed to the effects of cold upon the organism, this agent in truth being only an

A circumstance that sometimes arises in connecsible, as in the case of ecstatic thoughts, lively emo-tion with the application of electricity is one con-Familiar instances occur in cerning the doubts and fears of patients with heart This feeling seems to be inspired through trouble the popular mistake that they are to be shocked, or have a thunderbolt hurled at them An illustrative observation is that of a matronly person who consulted me in August, 1886 She was anæmic and neurasthenic, and had the cardiac symptoms usual to such conditions A short stay at a Southern seaside resort had proved of no benefit, and she had promptly relieved by no other treatment than that of been particularly counseled by her physician to avoid sea-bathing and electricity After two weeks' treatment I allowed my patient to go to Atlantic City, with instructions to take a dip in the surf of a minute only at the first bath, and gradually prolong the time a few minutes each day My directions being faithfully carried out, inured to the ultimate benefit of the patient, who stated on her return that she had not felt so well for years At present her health is

Every physician knows how tedious and difficult, shoulder, and lumbago, all of which promptly disap- and barren in results, is the treatment of copodycinpeared after one or more applications The patients esia—an affection that appears to be more observed in all these instances attributed the origin of their of late than formerly. We now find it as one of the common neural disorders in artisans of various classes, such as the hæphestic palsy of boiler-makers, the "loss of grip" of telegraph operators, and the ailments to this cause that to enumerate them would affection known as "Charlie horse" among professional base-ball players I have also lately seen a morbid conditions are attributed to cold in which case in a woman whose occupation for a number of years has been counting greenbacks in the Treasury Department Another case worthy of mention is one in which the disorder was most apparent in the muscles concerned in writing It occurred in an adult male whose vocation necessitated a sedentary and monotonous life The treatment, begun January belongs rather to temperate climates, being met with 23, consisted of daily applications of electricity by insulation and sparks, relaxation from work, and a The returns of the English Army, which is stationed Sunday ramble in the country On March 4 he was

I now finally call your attention to a case of paraplegia that I have treated with the happiest result occurred, while under the more temperate climate of It is that of a man of 51, who was brought to my office in a rolling chair in May, 1886 He stated that he had been paralyzed from the small of his back downwards for more than a year, that formerly he suffered from severe pains in the limbs, but at Limo-who, by the way, appear not to stand cold so present slept well and enjoyed a good appetite, although suffering from constipation and occasional

The patient's general history was good, but having been a soldier in the late "unpleasantness," he had That cold does occasionally provoke an attack of an attack of dengue fever in 1863, and suffered subone of the forementioned diseases may be admitted, sequent privation as a prisoner of war, which left him with what was supposed to be sciatica and rheumatism

On examination I could find no outward, visible or tangible manifestation of rheumatism, and no appreciable cardiac lesion, the heart's action being normal and but slightly excited

I immediately applied the actual cautery to the lower dorsal spine, and continued the treatment by drawing long sparks from the back and paralyzed Rapid improvement took place tient now walks without lameness and is, in fact, well He has been good enough to come here this evening, and I shall show him to you presently

If I chose to incur additional risk of being tedious, these remarks might be prolonged by further reference to considerations of a therapeutic, physiological and mechanical character, but this is not the time or place for a more extended exposition however, add that former objections to statical electricity have been done away with, owing to the construction of superior machines in which the tension and quantity are within the control of the operator The one that I use consists of six 26 inch plates driven by a Tuerk water motor It does all the work of the best Faradic machines, and is more serviceable than ordinary galvanism Removal of the patient's clothing is unnecessary, and the current may be so regulated as to range from an agreeable sensation or an almost imperceptible tingle up to extrenie muscular contraction

The manner of applying is by insulation, sparks, shocks, and the induced current The patient being placed upon a tabaret and electrified, a difference of potential takes place, his body being raised one potential higher than that of the earth, which is zero By means of an umbrella electrode an equalization of potentials is provoked, giving the effect of spray or electric wind, and if an electrode be approached or placed in contact with the patient's body, a more vigorous equalization takes place, manifesting itself in the form of sparks, which become more violent as the patient's potential is increased The application of the statical induction current to the human body with physiological results is among the latest novelties, and the nerve and muscle reactions produced thereby are now admitted by all physicians and elec-It is difficult to tell just what the trical experts ultimate molecular disturbance is that takes place in the cure of the myriad manifestations of hysteria, nervous exhaustion and hyperæsthesia when statical Every physician knows how comelectricity is used mon and how perplexing such cases are But if, at the right moment, the proper agent is applied, we get a result that forces upon us the conviction that static electricity has therapeutic effects peculiarly its own, and it is no figure of speech to say that the lightning which Franklin drew down from the heavens has become the physician's most useful handmaid 1732 II St, N W

MERCURY IN BLOCK-TIN -A large mortality among workmen in a tin smelting place in Nuremberg caused an investiga tion, which showed that the block tin contained 3 per cent of mercury

SOME POINTS IN THE MANAGEMENT OF TYPHOID FEVER

Read to the Thirty first Annual Meeting of the Missouri State Med Association, Kansas City, Mo , April 19, 1888

BY I N LOVE, MD. ST LOUIS, MO

I shall not fatigue this body with a labored paper on typhoid fever, giving in detail its history, etiology, clinical characteristics, etc., for being, as you are, busy workers in the profession, you are in no need of an exhaustive and exhausting elaboration of the I feel safe in taking it for granted that you subject are all familiar with the literature

Through the researches of Koch, Eberth, Meyer, Friedlander, Gaffky, and later of Frankel and Simonds, the typhoid bacillus has become an entity that must not (and cannot safely) be lost sight of during the progress of a case and after its termina

The points I propose to present are the result of observations made in hospital and private practice during the past sixteen years, some of them being more particularly emphasized during a series of cases occurring within the past six months

I think we are too much inclined to be on the lookout for classical representations of this disease, I have had a number that I as of many others placidly considered simple continued fever, temperature not ranging higher than from 101° to 103°, no rose spots, no tympanites, no special evidence of intestinal irritation, nothing leading me to suspect typhoid fever until suddenly aroused to an appreciation of the fact by dangerous and repeated hæmor rhages from the bowel, and in one instance (in 1877) the bleeding continued until it proved fatal occurred in a boy of six and was convincing proof to me of the fallaciousness of the idea that formerly obtained, that young children were not susceptible In this connection, I recall the cirto the malady cumstance of a consultation visit made to a young man who had been ailing for some weeks, though he was up and about until a few minutes before the family physician was summoned and found him suffering great agony An investigation developed an intestinal perforation, which caused death in a short The clinical history and the post-mortem rev elations evidenced an illustration of "walking typhoid

We know that we frequently have scarlet fever so mild as to be entirely overlooked, until the attention is aroused by grave nephritic trouble, and so in all diseases, the artistically perfect specimen is the exception and not the rule

It has, no doubt, been the observation of all, that the course and complications of typhoid fever are as varied as the individual victims, but it was not recognized till lately (by Griesinger) that numerous light and rudimentary attacks (typhus levissimus) be longed to typhoid fever at all, they used to have all sorts of names applied to them, as suggested by Strumpel, the favorite being "gastric fever

The diagnosis is of course difficult in proportion to the scanty development of typhoid symptoms, and it is best established by demonstrating an etio logical relation between them and others that are plainly typhoid fever Apropos to this mild class of cases, I remember a case under my observation last December, a five year old boy, in a family where three other cases developed, (one fatal) of a violent character, the child was sick only about twenty one days, and under ordinary circumstances his case would have been diagnosticated simple continued, or remittent fever

As the individual manifestations may vary, so, too, do entire epidemics One season the type is vio During the past six or eight lent, and another mild months I have had under my care an unusual number of typhoid fevers, and these, together with nearly all that I have observed for two or three years past, have been much more favorable in their results, due possibly more to the mildness of the infection than to the character of the treatment, though I am persuaded that the latter had something to do with the favorable showing

Since about July 21, 1887, I have kept a record of 36 cases, and of that number 2 died-of those one really died of acute mania superinduced during the period of convalescence by sudden shock and grave domestic sorrow, she being a nursing mother, of intensely neurotic temperament—the other was a delicate, over-worked girl of 16 years, with tubercular diathesis, and sick for ten days before a physician was called, she having been six days and nights without sleep, and in fact died from meningitis as a com-

plication There are those who believe that, by active interference, typhoid fever may be aborted, though I am not ready to endorse this proposition, I am sure it may be modified and abreviated. I cite briefly the following as an illustration July 21, 1887, J T C, taken with violent vomiting and intense ab dominal pain, examination revealed a lusty, plethoric youth of 18, red tongue heavily coated, pulse full and 140 a minute, temperature 105 5°, acute tenderness over abdomen, with constipation Remedies were ordered for opening the bowels, soothing the stomach, and reducing temperature lapse of twelve hours an action of the bowels had been secured, but no improvement of the general conditions At once ordered 1 gr of calomel every hour, and the application of ten leeches over stom ach and the ileo cæcal region, at point of greatest tenderness, followed by hot fomentations leeches abstracted five or six ounces of blood, giving marked relief, at the end of ten hours the ro grains of calomel had produced active purgation, and this, together with the local abstraction of blood, had mitigated all the symptoms, the temperature was down to 102°, the pain and tenderness almost gone, no nausea, no vomiting The patient was in every way more comfortable, and jogged along for four weeks with a mild form of typhoid fever instead of dying during the first five or ten days, as I believe he would have done had a temporizing course been

it upon the antiseptic plan, aiding elimination by stimulating the excretory organs, sustaining the strength by diffuse stimulation at the proper time, and the furnishment of an abundance of nutrition in

a form for prompt assimilation

Since the introduction of antipyrin, the dangers of high temperature are much less than formerly, as we can certainly control that feature, however, I favor the very careful administration of the drug, until full opportunity is given for the ascertainment of sus-There have been recorded already a ceptibility number of unfavorable results, even death itself, owing to some peculiar idiosyncracy I prefer small doses (5-10 grains to adults) at short intervals, keeping up the effect continuously, rather than large doses, and sudden and excessive falls of temperature I think a sudden reduction, no matter how obtained, is not so likely to be maintained, sudden reductions are depressing, and endanger heart-failure, and prompt While antipyrin is of great value return elevation as a febrifuge and tranquilizer of the nervous system, and at the same time diaphoretic, I feel that in the cooling bath we have an agent equally or even more By cooling bath I do not mean the sudvaluable den immersion in cold water, that is uncalled for, undestrable, and brutal The temperature of the water at first should be about the same as that of the patient, and may be gradually reduced down to 85° The bath may be prolonged five or ten I doubt not you have all seen, as I have, patients wildly delirious, go calmly to sleep during the progress of the bathing The advantages of the bath, I take it, are

I The reduction of temperature is accomplished gradually and comfortably to the patient in accordance with nature's plan of putting out fire by water

2 The water acts primarily as a soother of the peripheral nerves, and secondarily calms the disturbed nerve centres

3 It stimulates the secretory glands, allays thirst by being directly absorbed into the heated and dry tissues, hungering and eager for drink, encourages diaphoresis as well as diuresis

4 It influences favorably the respiratory organs by energizing inspiration, and thus aids in the securement of expectoration, and as a result, bronchial

complications are less frequent

5 The hygienic effect upon the skin is of great value, removing, as it does, the foul-smelling products of the sweat and sebaceous glands, aiding in the procurement of strength and elasticity to the cu taneous and adjacent tissues, conditions antagonistic to bed sores

Of course it goes without saying that the bath should be administered with due regard to the comfort of the patient, drafts should be avoided, and immediately following the bath a thorough drying and brisk rubbing should be instituted, and warm covering, with hot water bag to the feet if need be, and a nice cup of hot broth or a little wine or toddy would be in order

I think antipyrin and bathing or sponging may be Recognizing the disease as an infectious one de- used conjointly to good advantage. As an antipypendant upon a specific virus, it behooves us to treat retic, quinine should be ruled out altogether, in doses sufficiently large to reduce temperature it is demoralizing to the nervous system as well as to the digestive tract, and when we recall the fact that the sheet-anchor of hope in typhoid fever consists in good digestion and nutrition, and tranquil nerves, we can see that the objection to quinine is well founded If well defined malaria presents itself, as a complication, an antiperiodic is of course indicated, and quinine should be given, but very carefully

In this connection permit me to express the opinion that the so called typho-malarial fever of Woodward is a misnomer, being probably nothing more than a modified expression of typhoid fever plus ma-Certainly the coining of new names for every modification of a disease is confusing, and the prac-

tice should receive no encouragement

What has been said above need not be interpreted as an objection to the use of tonic doses of quinine during the period of convalescence, but as against the administration of quinine to an unadulterated case of typhoid fever In the earlier, middle, or later stages of the disease, there may come a time when the necessity of the situation demands the removal of the patient from one section of the country to another, I desire to place myself on record as being strong in the opinion that the danger of removing a person seriously sick has been much overrated, that with due care and a guarding against the chilling of the surfaces, and the interruption of the proper other wasting disease, should not be permitted to amount of sleep, typhoid fever and other dangerous cases may be safely transported hundreds of miles I have a record of four cases successfully and advantageously removed from one hundred to one thousand miles on sleeping cars, which justify this conclusion

As the administration of the calomel purge in the beginning is satisfactory, so the renewal of 1/8 grain doses every other day, to the number of a half dozen, is an advantage in the direction of keeping the bowels open, as well as serving as an intestinal anti-If an additional aid is required to evacuate the bowels, an enema of a teaspoonful of glycerin En passant, I desire to emphasize will be efficient the value of one dram injections of warm glycerin (as suggested by Anacker) into the bowel as a ready means of securing a prompt evacuation

Permit me to emphasize the most salient points I

desire to make by summarizing as follows

1 Typhoid fever varies in intensity, severity, and length of attack, as do other infectious diseases, and while it has not yet been established that any of this class can be aborted, yet typhoid, with all the others, may be mitigated and abreviated, and unfortunate complications and sequelæ prevented

To the securement of this end I think that which is of paramount importance, is management, rather than medication, though there are many dangers that can only be tided over by the prompt and proper

exhibition of drugs

The administration of remedies that are antiseptic and stimulate the excretory organs is important, and for this purpose small doses (1/5 grain) of bichloride, or the mild chloride (1/8 to 1/4 grain), as often as is necessary to produce an effect, is of value

4 Nutrition, by the administration of food in a blanched

form for prompt assimilation, is a necessity, and to this end the diet should be limited to pentonized milk, beef peptones (Rose's), bovinine (Bush), etc, bearing in mind that the stereotyped home made beef tea is of no more value as a food than a weak toddy, being a mild stimulant, and nothing more

5 Freedom from pain, tranquility, and perfect rest should be insisted upon, and remembering that this disease of all others has a wrecking effect upon the nervous system (it having been called by some German writers fieber nervose, or nervous fever), we should see to it that our patient obtains not less than twelve to sixteen hours sleep out of the twenty-four, and the remainder of the time be saved from the meddling, mis-directed kindness of over zealous friends

6 For the obtaining of sleep and the relief of nervousness, the administration of antipyrin, chloral, paraldehyde, urethan, and the bromides, is preferable to opiates, though occasionally the latter are de manded

7 When the conditions surrounding a patient are unfavorable, and a change is desirable, even to a dis tant point, the removal, under proper precautions against chilling and unrest, may be permitted or even preferred, the danger of the same not being as great as it is generally considered to be

8 As a rule, a patient with typhoid fever, or any have bed-sores, they are an expression of starved tissue and neglected skin, and are preventable, the means for their prevention being proper nutrition

and bathing

CASES OF ABDOMINAL SURGERY

8 Removal of Uterus for Fibroma—Death 9 Digital D latation of Stenosed Ileo-cæcal Valve—Recovery 10 Loreta's Operation-Death 11 Ovari-12 Stab-wounds of Liver otomy-Recovery 13 Resection at Ileoand Colon-Recovery cæcal Valve for Epithelioma - Recovery Artificial Anus for Encephaloid Obstruction of Death from Peritonitis Bowels-Recovery

Read before the Philadelphia County Medical Society, April '11, 1888

BY J M BARTON, MD, OF PHILADELPHIA

(Concluded from page 519)

Remoral of Case 8 —Large fibroma of the uterus uterus and ovaries by abdominal section, death on the fourth day —Mrs S, at 32 years, a patient of Drs Skilling and MacOscar, of this city, had been ill for two years, and had been bleeding for sixteen months During the last six months she had never been free from bleeding more than a week at any one time, and for the last ten weeks, she stated, she had bled daily from two to sixteen ounces, the latter amount only after exertion, this confined her constantly to her bed or lounge She had a good appetite, good digestion, and was well nourished though exceedingly

The diagnosis of large submucous fibroid was made when I first saw her, six months before, and full doses of ergot had been taken constantly, during all that time, without effect

At the time of operation, the enlarged uterus

regular in its outline and quite movable

On December 9, 1886, with the assistance of Drs J C Da Costa, Porter, Skilling and Fisher, the operation was performed I made a long median incision from the pubes to some inches above the umbilicus, there were no adhesions, the uterus was readily elevated and a short "Thomas" clamp placed upon its neck

After the broad ligaments had been tied and divided, the body of the uterus was removed about an

inch above the clamp

As the abdomen was quite deep and its walls quite thick, it was utterly impossible to bring the pedicle outside, a strong silk ligature was passed through the neck, below the clamp, and tied on each side

When the clamp was removed the parts above the ligature were found to consist of uterine wall, enclosing a section of the tumor, on removing the latter the uterme walls required but little attention to make very perfect flaps, they came together without tension and were held in position, with their peritoneal surfaces in close contact, by a continuous catgut suture The toilette of the peritoneum was carefully made and the abdomen closed

The uterus removed was about seven inches in diameter and contained a submucous fibroid, attached to nearly the entire inner wall, in size and attachments it is nearly identical with one, also removed by abdominal section, which I presented to reduced

this Society some years ago

The patient rallied well from the shock of the operation, and by the following day was quite cheerful, with good pulse and temperature, but she had secreted very little urme On the third day some regurgitation of bloody fluid occurred from the stomach, the temperature increased and the urine There was no abdominal tenderwas still scanty ness or distention By evening delinium occurred and death ensued the following day The nurse assured me that only three ounces of urine had been secreted during the four days

On post mortem examination there were no evibowel lying in contact with the uterine stump ureters and the bladder were uninjured, no bleeding had occurred, the uterine stump had remained well The uterine wound was quite clean, no decomposing or offensive fluids were present small portions of the very edges of the flaps looked Some as though they were beginning to slough, though very much less than I feared would happen when I dominal wound being kept closed by sponges

Case 9 - Stricture of the ileo-cacal value, chronic obstruction of the bowels Laparotomy, digital dila- patient was kept slightly under the influence of mor-

Pennsylvania, was admitted to the Jefferson Medical College Hospital in May 1887 She had been in good health until the birth of a child in May, 1886 Since then she had had repeated and increasing attacks of obstruction of the bowels, during which reached to the umbilicus, was perfectly smooth and there were entire loss of appetite, obstinate constipation, constant vomiting, great abdominal pain, and tenesmus, similar, she stated, to labor pains Lately there had appeared at these times a tumor in the lower part of the abdomen about the size of the adult fist, these attacks occurred about once a month, and as they lasted three weeks she had but a short interval of comfort between them When free from the attack, she stated that the tumor returned to the right iliac fossa, where she thought she could distinguish it by palpation and its tenderness on pressure I was unable, at this time, however, to recognize any unusual mass in this situation

I kept her under observation until an attack should On May 21, an attack began, and her sufferings fully verified her statements The tumor appeared between the umbilicus and the pubes, it was about the size, and very nearly the shape, of the

adult kidney

On May 2, 1887, in the presence of Professors Gross, Parvin, Brinton, and several other physicians, I made a median incision about four inches in length and exposed the mass, it proved to be an intussusception of the ileum into the colon with a thickened and contracted ileo-cæcal valve forming the apex of the intussusceptum

There were slight adhesions between the contiguous layers of peritoneum covering the bowel, which were readily broken up, and the intussusception

On examining the ileo-cæcal valve by a finger invaginating a fold of the colon, it was found to be hard and contracted A longitudinal incision was made in the colon about one inch in length, and three from the valve, through which I passed my finger and found the valve contracted to about the size of a crow's quill (one-fifth of an inch) slightly thickened, quite hard, white in color, and did not bleed during the examination or subsequent manipulations It was considered by all present to be a case of cicatricial stenosis due to some previous inflammatory action, and certainly not malignant It was dilated, with considerable difficulty, by the dences of peritonitis except slight adhesions of the introduction of the little finger, the index finger was The then carried through its entire length

The wound in the bowel was closed by a continuous silk suture, including only the mucous membrane, the peritoneal mucous coats were brought in apposition by a continuous silk Lembert suture

All the operative procedures upon the bowel were performed outside of the abdominal cavity, the abligated the neck I think, in future, I shall content portion of bowel outside was thoroughly washed and myself with ligating the arteries of supply and omit returned, the abdominal wound was closed in the usual manner

tation of the stricture, recovery—Mrs Ann H, et. phine for a few days, and on a milk and broth diet 37 years, a patient of Dr D S Jones, of Plymouth, The bowels opened naturally on the eighth day, the

stitches were removed on the fifth and sixth days, the temperature never rose above 100° She returned to her home entirely free from all her previous symptoms, and remained free for several months

[Her subsequent history appears later in this

Case 10 -Obstruction of the pylorus Digital dilatation by Loreta's method, death from cahaustion -George II, German, et 58 years, blacksmith His health had always been good until the last year At the time he came under my care he had the typical symptoms of complete pyloric obstruction, with a well marked tumor at the usual situation, it was not very large nor hard, had no marked outlines, and presented the characters of pyloric thickening more than those of a malignant growth The microscopical examination of the matters vomited gave no evidence of malignancy, and no vomiting of blood had occurred He was greatly emaciated, and so feeble that at first I refused any operative interference, the operation had, however, been explained to him, and its performance promised before he came under my care, and he insisted so strongly on having a chance for prolonging his life that I consented

The operation was performed at Jefferson Medical College Hospital May 22, 1887, in the presence and with the assistance of Professor Brinton, Dr Wirgman, and quite a number of others

interference than mere dilatation of the pyloric orifices, and as the usual incision to the right of the greatly prolonged median line would have exposed the stomach nearer to the pyloric orifice (as shown by the position of the tumor) than I desired, I made the incision directly in the median line, and about three inches in length, beginning an inch and a half below the ensiform cartilage

The stomach was readily exposed three inches from the pylorus The examination of its exterior threw no new light on the character of the growth, though the stomach at this point was found to be slightly adherent to the structures beneath An incision, a little over one inch in length and three inches from the pyloric orifice, was made in the stomach, parallel to and directly beneath the abdominal incision, the coats of the stomach were Complete stenosis of the pyloric much thickened orifice was found when the finger was introduced, this was readily dilated with the little finger, while the tumor was supported outside the abdominal walls with the left hand, the orifice was then further dilated

by the index finger The thickening and infiltration of the walls of the stomach at the point of incision prevented the use of the Lembert suture, their softened condition evidently required the suture to pass through all the As the abdominal wound was directly over that in the stomach, the latter was closed and brought in contact with the abdominal wound, so that the visceral and parietal peritoneum might adhere, and if any of the contents of the stomach should escape or any pus form, they might readily drain outside and not into the general peritoneal was free venous bleeding

Fine silk with two needles were used, these cavity were carried from within outward through all the coats of the stomach, one needle through each lip, then crossed and one brought through each lip of the abdominal wound, a few were carried direct without crossing These sutures were tied and the abdomen closed

Nothing was given for the first twenty four hours by the stomach, the rectal nourishment upon which he had relied previous to the operation being con-No vomiting occurred during the four days that he lived, on the second day milk and hot water were given in small doses at regular intervals, and as they were well borne they were increased in quantity and frequency Notwithstanding the fact that he took over a quart of milk per day, besides rectal nourishment, he sank and died exhausted on the fourth day after the operation There had been no elevation of temperature

At the autopsy the stomach was found firmly fastened to the abdominal wall, there was no evi dence of any peritonitis. In the interior of the stomach it was difficult to find the point at which the incision had been made, the sutures being com pletely buried in the folds of the mucous membrane The pyloric thickening was inflammatory in char acter, and not due to any malignant growth

There was complete obstruction previous to the operation, there was none after, and had the patient As the patient's condition warranted no further been subjected to operative interference earlier there is no reason why his life might not have been

Case II -Ovarian tumor Removal, recovery -Miss A, at 38 years, had noticed a painless ab dominal enlargement for a few months On exam ination I found a small ovarian cyst, lying in the median line and rising slightly above the umbilicus On May 23, 1887, with the assistance of Drs Da Costa, Edward Graham, Sweet, and Fisher it was The incision was about three inches in removed length, the tumor was non-adherent It was tapped, drained, and removed in the usual manner, its pedi cle was tied with silk and dropped

The peritoneum was brought together with chro micized catgut, the interrupted silk suture being The patient made an un used for the other tissues interrupted recovery, her temperature never rising above 99° The tumor weighed about fifteen pounds

Case 12 — Two penetrating stab-wounds, one punc turing the liver and one the transverse colon Lapar otomy, necovery - Michael H, at 25 years, was ad mitted to the Jefferson Medical College Hospital at 3 PM, of September 9, 1887 About three hours previously he had been stabbed twice with a small and pointed amputating knife, during a quarrel in a house of ill-fame

There were two wounds, both penetrating the abdominal cavity, both at the outer edge of the right rectus muscle, and both running diagonally toward the median line, and penetrating the peritoneum at The upper was one and a quarter inches long and was just below the edge of the ribs, it that point terminated in the left lobe of the liver, from it there

The lower wound was three quarters of an inch perceptible After hurried epitheliomatous above the level of the umbilicus antiseptic preparations, I opened the abdomen in was closed by the continuous silk Lembert suture The suture failed to control a small artery in this wound, but a separate stitch carried under it and disease than the centre tied secured it

oozing, and as its lips were in fair contact no suture The abdomen was cleansed, the wound was used closed and dressed in the usual manner

The following morning his temperature was 1010 and in the evening 100°, after that, though it kept quite low, varying from 98½ to 99½°, he had a long rectal tube to relieve him The stitches were removed on the fourth and fifth days, and the abdocharged cured on September 29, having been in the hospital twenty days

Case 13 - Epithelioma of the ileo-caecal valve Resection of three inches of intestine, recovery —Mrs H, æt 38 years, the same patient whose ileo cæcal valve was dilated seven months before (see page 547), came complaining of a return of her former symptoms, her sufferings were slight, but were evidently of the same character as before the first operation

November 1, 1887, with the assistance of Drs Allıs, Kendıg, Stillwell, and the resident staff, I again opened the abdomen A straight incision parallel to the median line was made, it was three inches in middle of Poupart's ligament. made at this point as the nearest to the portion of bowel I wished to attack, because I feared ad hesions might have formed after the last operation, rendering it inaccessible from any distant incision, and, further, if it became necessary to form an artificial anus, it wound be a convenient point

I had decided that if it should prove to be a incision about two inches in length carried through passage of feces from the natural outlet ends of the wound together and sewing it up transversely, this would best be made on what would be the under surface of the bowel when the patient stands erect. I tried this on the cadaver and found it practicable, and that it increased the circumference of the bowel, at that point, about two inches

first operation there had been slight bleeding at a precisely similar result number of points where adhesions were torn The

At the ileo cecal valve, however, there long, it was three inches below the upper and just was now a decided tumor, and it was now evidently

An incision was carried into the mass verifying the median line from the ensiform cartilage to the the diagnosis, the entire valve had become an irreguumbilicus, and found an opening about five eights of lar mass of epitheliomatous tissue varying in thickan inch in length in the transverse colon parallel to ness from a half an inch to an inch, entirely ob its length and near its mesenteric attachment, this structing the gut except an aperture in the centre, about one third of an inch in diameter The circumference of the valve was less thickened by the

The abdominal wound was now closed by sponges, The wound in the liver was small, it had ceased leaving the diseased parts outside, three inches of the bowel, including the disease, were removed, no clamps were used, the bowels being held in the hands of an assistant, a few vessels were tied

As the mortality is very high when the separated ends of the bowel, in these operations, are sewed together and returned, I had decided if it became sharp attack of peritonitis, lasting three days, during | necessary to excise, to establish a temporary artificial which time there was constant regurgitation of bloody anus and begin at once the proceedings for its cure The abdomen was painful and greatly dis- With this end in view, immediately after the removal tended with gas, requiring the constant use of the of the diseased bowel and the ligation of the bleeding vessels, one blade of Dupuytren's enterotome was introduced into each portion of bowel, viz, one men supported by adhesive plaster He was dis-into the ileum and one into the colon, the two blades were brought together and the screw run A strong ligature was placed on the down firmly ends of the bowel, including the enterotome, to prevent the escape of feces during the subsequent The bowel was washed, placed in manipulations position at the lower angle of the wound and fastened there with a continuous silk suture The abdominal wound was closed, covered with cheese cloth saturated with mercurial solution, and this in turn with patent lint soaked in sweet oil This is the best method that I have found to protect abdominal wounds close to an artificial anus

The heavy ligature around the ends of the bowel was now removed A ring of cotton soaked in oil length terminating at a point one inch outside the placed around the artificial anus, the outer extremity The incision was of the enterotome supported by oakum, and a wide bandage pinned over it Morphine was used hypodermically during the first forty-eight hours and then discontinued, vomiting occurred during the first two days and then ceased Some feces appeared on the evening of the operation, and full quantities two days later

On the eighth day the enterotome was found loose, recontraction of the stricture, to make a longitudinal and was removed, its removal was preceded by a ileum, ileo-cæcal valve, and cæcum, bringing the two stitches were removed on the third and fourth days, and the wound supported by adhesive plaster the removal of the clamp the patient was permitted to rise, and all restrictions removed from her diet

The bowels acted naturally for a few times, when all the feces came again from the artificial anus The clamp was again applied on the 17th, and came The head of the colon was readily found, there away on the 28th Its removal was again followed was no return of the intussusception, no adhesions by a few natural passages. As these ceased in a few had formed, though in reducing the intestine at the days the clamp was applied for the third time with a

As this had proved ineffectual, the method of Mr scar of the original intestinal incision was scarcely Banks, of Liverpool, was used A strong ligature was fastened to the middle of a heavy piece of rub- inal tenderness and other evidences of a slight ber gas tubing about six inches in length, one end of attack of peritonitis, which disappeared in fortythe tube was passed into one bowel, the other end eight hours. On the 28th he passed wind by the of the tube into the other bowel, the middle of the penis, and again on the 30th tube pressing against the spur The position of the bowel in this case was such that the rubber tube was Allis, Nancrede, Robinson, and the house staff, I retuined with difficulty After trying it for ten days without success, I substituted the apparatus which I here show, consisting of two pieces of very heavy rubber gas tubing joined together like the letter T The upper part of the T is about one and a half inches long, and presses directly against the spur, the other tube is three inches long, and merely serves to keep the first in position The large hase is circular, is three inches in diameter, and serves as a pad to prevent the escape of feces from the arti-The three pieces of rubber are joined ficial anus firmly by a strong wire running from the first to the last piece, and twisted tight. This method proved at once satisfactory, and a large proportion of the feces began at once to pass by the natural outlet, The patient is now in the and continued to do so hospital, but I shall make no attempt to close the fistule until it is seen if the bowels will continue to act naturally

During this prolonged treatment, fearing that the colon, from disuse, might contract, I directed that she should be given an injection of a quart of water daily, and I was surprised to hear that when a pint had been given it appeared at the artificial anus By continuing these injections the capacity of the colon was rapidly increased, and when last tried it held three pints, of course, when the bowels began

to act naturally this was discontinued

Case 1.4 - Chronic obstruction of bowels by encephaloid tumor Exploratory laparotomy, artificial anus established, recovery from the operation, death fourteen days later from obstructive peritonitis arising from tumor Francis O B, set 38 years, Irish, carpet porter, a patient of Dr James Robinson, with whom I saw him January 18, 1888 He was in perfect health until June, 1887, when he began to have slight cramps, once or twice daily, and occasionally at night, in the left iliac fossa tinued working until December 24, 1887, and has His attacks had not inbeen confined to bed since creased greatly in seventy, but he was getting much He had lost fifty pounds in weight, he vomited once or twice a week, it was not stercorace-He suffered greatly with tenesmus, which produced from ten to fifteen passages during the night, each being a small, hard, white mass about the size

The left iliac fossa was slightly tender The pulse was 104, domen was distended with gas and the temperature normal His pain was unin-He had never passed blood by fluenced by food The rectum was found empty and unthe bowel

Later I removed him to Jefferson Medical College Hospital, by which time his pain was nearly constant, and he was unable to sleep without large doses of Some days after admission his temperature increased to 103°, there was increased abdom- same day

On January 30, 1888, with the assistance of Drs opened the abdomen A median incision about four inches in length was made, and a lobulated tumor the size of an orange was found in the angle between the bladder and the spine The sigmoid flexure of the colon was tightly adherent to and partly buried in the tumor The cæcum was carried toward the median line, and was also adherent to The lower end of the ileum was closely the tumor adherent, and its calibre nearly obliterated

The colon was contracted and collapsed, all the bowels above the point of obstruction in the ileum

were greatly distended

As nothing could be done with the growth, a fold of the ileum a few inches above the point of obstruc tion was brought out of the wound and fastened in its lower angle by a few silk sutures, a rubber drain was introduced, as a glass one failed to reach the desired point, and the abdomen closed The drain was removed about twelve hours later, as I feared to have it remain in such close proximity to the arti Twenty-four hours after the operation ficial anus the fold of bowel in the wound was opened, and the artificial anus established

On the second day the patient was placed upon The stitches were his usual food, stimulants, etc removed on the fourth and fifth days, the wound It was successfully kept from healed promptly contamination by the fæcal discharges, by the method described in a case reported above

At the operation a fold of bowel was brought en tirely out of the wound, this was adopted as a modi fication of the method of entirely cutting off the bowel, closing the lower end with sutures, and using

the upper to form the artificial anus

The method here adopted has the advantage of rapidity, less danger of contaminating the cavity with fecal matter, as the opening of the bowel may be postponed until firm adhesions have formed It permits any gases or other material that may be im prisoned in the lower bowel to escape, and quite as effectually prevents any material passing the artificial anus into the lower bowel

The patient was relieved of his pain, the vomiting ceased, and he slept well, had a fair appetite, and All fæcal discharges, and improved in appearance they were very copious, came from the artificial anus, and none by the natural outlet after the first twenty

On the thirteenth day there was a slight elevation of temperature, and all fecal discharges suddenly ceased, injections of warm water carried some distance above the opening by a soft catheter were without effect, by evening vomiting and other symptoms of acute obstruction occurred, and he died twenty four hours later, or fourteen days after the

The post-mortem examination was made on the The abdominal wound was solidly healed, the bowel, at the artificial anus, was firmly attached to the abdominal opening. The abdominal cavity contained quite a quantity of opaque serum, the opacity was greatest near the tumor, and on pressing the tumor, thick, purulent-looking fluid exuded from it. This was probably the origin of the fatal peritonitis. The bowels were but slightly congested, and at one point only, about twelve inches above the artificial anus, were adherent. The bowel at this point was sharply flexed upon itself, and adherent for about three inches, causing complete obstruction. This adhesion was readily broken down by the finger, and it would probably have yielded to an active saline.

The condition of the bowels, as found at the time of the operation, was verified, the tumor was broken down, and had ulcerated into the sigmoid flexure, a large number of secondary nodules were scattered through the liver The microscopical examination was made by Dr Longstreth, the tumor and the nodules from the liver were reported by him to be encephaloid

FIFTY CASES OF SCARLET FEVER

Read before the Suffolk District Medical Society, Section for Clinical Medicine, Pathology and Hygiene, February 8, 1888

BY HENRY JACKSON, M D,

I wish to present to the Section a short account of these cases, as an epidemic of this size always gives one an opportunity of making some interesting observations

These cases occurred in the North End of Boston during the months of April to October

April 4
May 3
June 5
July 3
More severe
August 10
Much more severe, with throat trouble
September 24
March 2
Total

Of these cases thirty may be characterized as of a Prodromal period short, usually twelve to twenty-four hours, vomiting almost always present, headache and malaise, usually more or less complaint of sore throat In cases where an examination at the early stage was possible, I did not find the appearance of the throat sufficiently characteristic to warrant a diagnosis of scarlet fever merely from this In no case were convulsions seen The period of efflorescence lasted from twenty-four hours to four days, rarely longer Temperature not high Many of the children wished to be about the house, and were with difficulty kept in bed, even during the height of the eruption Vomiting ceased in most cases on the appearance of the eruption, occasionally it continued until convalescence was established

As the other cases presented some points of more particular interest, I will give them more in detail. In two cases there was no eruption and yet the diag-

nosis of scarlet fever seems to be fairly well justified

(1) Katharine McC, 15 years Slept in a bed with two children who had well-marked eruption She had a moderate fever, headache, malaise, and pharyngits and tonsilitis (not follicular) Well on fifth day No sequalæ

(2) Annie McL, 11 years Lived in the same flat that three children lived in who had scarlet fever No eruption, slight pharyngitis, mild febricula of a few days' duration. Or course scarlet fever would not have been considered except for the other wellmarked cases. Under the circumstances it seems to me highly probable that her symptoms may have been due to scarlet fever.

Raphael B, 4 years Acute lobar pneumonia on seventh day Course of the scarlet fever mild and of no special interest. In four cases convalescence was delayed by suppuration of the parotid gland.

One case was complicated with measles

Mary McC, 2 years Well-marked eruption of scarlet fever, severe catarrhal pharyngitis On the fifth morning the eruption had faded, and the temperature was normal, that night temperature 1020, and body covered with a very fine punctate rash Next day an abundant and well marked eruption of Catarrhal inflammation of eyes, nose and measles bronchi Child very sick for a week Pulse 160, temperature 103° to 104°, respiration 45 Lobular pneumonia in right front. In the latter part of the attack of measles the skin presented a very curious appearance, as the bright red papules of the measles were covered by the dried scales left by the scarlet fever Urine showed a small trace of albumen and a few casts Complete recovery

One case only had very high fever

Nettie McC, 6 years Eruption well-marked, temperature 104° to 105° for several days, pulse 140, stimulants ordered Disease was followed by leucorrhea of several weeks' duration, and one month after the attack of scarlet fever she had articular rheumatism

One case had cedema during convalescence with-

out any apparent renal disease

Nellie C 6 years Mild fever, no vomiting, slight pharyngitis, during convalescence very marked anæmia, slight cedema of face, hands and feet Careful and repeated examination of the urine gave a negative result as to the existence of renal disease I attributed the cedema to the anæmia, but found that Strumpell spoke of cedema as occurring after scarlet fever dependent upon molecular change in the walls of the bloodyessels.

Two cases of acute Bright's disease In the second and third weeks respectively, after the onset of the scarlet fever, urine smoky in color, contained 1/4 per cent of albumen, large numbers of casts of various kinds In each case headache, vomiting and general ædema Complete recovery in each case

The following case is one of great interest, and I fortunately have complete notes of the case, as the child was under the care of a trained hospital nurse R F, 9 years November 4 Eruption appeared,

¹Third edition. Vol I p 63

very light, pharyngitis marked For three days pulse and temperature very high On tenth day temperature normal, and pulse 100 During convalescence pulse very slow and irregular, frequently intermittent, no murmur detected Under small but frequent doses of tincture of digitalis and brandy pulse became rapid, regular and of good strength

November 20 Sudden rise of temperature, with swelling of the glands of the neck Examination of

the urine negative

Passed very little urine, vomited several tion times, slight ordema Rise of temperature smoky, 1/4 per cent of albumen sediment that of acute parenchymatous nephritis Gradual improvement in general symptoms and in the character of fourth day, or during the stage of desquamation the urine until December 1

After having passed a remarkably good day, the child woke on the night of December 1, and complained of severe frontal headache Vomited several times during the night These symptoms continued through the forenoon of December 2 Small dose of morphine $\binom{1}{16}$ given on account of headache

In the afternoon became somnolent, and soon completely unconscious At 4 PM, respiration 20, pulse 130, pupils not noted by the nurse Diagnosis of opium-poisoning was made by physician, and

treatment ordered accordingly

I saw the child at 5 30 Found respiration 18, irregular in rhythm, pupils normal. He was inclined to sleep but when aroused answered questions intelligently An hour later, roused with difficulty, when addressed, did not answer the question but counted 26, 27, 28, 29, 30 He never counted more than 30, always began with 26, and sometimes repeated the number 26 several times without counting further

At 8 P M, perfectly unconscious, respiration stertorous, irregular, two to four respirations being followed by a long pause, etc , pulse 120, pupils regular and of normal size, convulsive twitching of the right side of the face and right arm, which lasted for about three quarters of an hour, no paralysis

Next morning perfectly conscious, showed no symptoms, and had no remembrance of the events

of the previous day

For several days the urine was very scanty, contained a large amount of blood and albumen, and many casts From this time on gradual improvement, until convalescence was completed The distinctly localized convulsive twitching seemed to point to some lesion of the cortex, but I think that the rapid recovery makes it more probable that all the cerebral symptoms were dependent upon uræmia There was at this time a slight systolic souffle at the apex, but no enlargement of the heart

January 25 Boy stout and well, no murmur

Eight cases had severe diphtheritic inflammation of the throat, that is to say, there was extensive ulceration, with membranous exudation on the tonsils and uvula, or pillars of the fauces Cases in which several small gray patches were seen on the tonsils are not included in this list

Flint, Henoch and Strumpell say decidedly, that though the disease is anatomically identical with the condition usually found in diphtheria, the disease is etiologically distinct Eichhorst considers it at least possible that the condition is due to true diphthena implanted upon the already existing scarlet fever

The chief arguments that the disease is not diph theria are clinical in nature, namely, (1) Invasion of the larynx is rare, (2) paralysis rarely follows, (3) the disease is not so fatal as true diphtheria

So far as any conclusions can be drawn from so small a number of cases, all of these arguments are November 23 Three weeks after the onset of the refuted by the cases which came under my observa

> In only one case did the diphtheritic inflammation appear early in the course of scarlet fever, in the others the membrane was observed on the third or

> One case died from invasion of the larynx by the diphtheritic membrane In a second case there was probably membranous laryngitis, as evidenced by hoarseness and embarrassed respiration The child died apparently from asthenia I doubt if tracheot my would have been of any avail, even if the par ents had assented to the performance of the opera

> Two cases died of paralysis of the heart, one when convalescence was perfectly established, and one when the child was apparently improving rapidly

The mortality was large, as four out of eight (50

per cent) died

Cases of especial interest are the following

Millie H, 3 years When first seen remains of a rash of scarlet fever, on both tonsils and uvula a dirty gray membrane, which spread in a day or so to the pillars of the fauces Parts bled if touched Another physician was called, as my prognosis was On the eleventh day I saw the child playing in the street No ulceration in the pharynx twelfth day, sudden death from paralysis of the heart, according to the account given by the family

Johanna M, 21/2 years Brother of the patient had had a mild attack of scarlet fever eleven days previously Patient had mild attack without marked pharyngitis Fifth day tonsils much swollen In a few days both tonsils and uvula were covered with membrane, lips and edges of nostrils ulcerated Thirteenth day, voice hoarse and and bleeding almost maudible, respiration somewhat embarrassed Fifteenth day, death, without any preceding dyspnæa. Trace of albumen and a few casts in the urine

Daniel S, 5 years When first seen desquamation was going on, emaciation extreme, voice whining, ulceration of the edges of hps and nostrils, mem brane on both tonsils and uvula, abscess below right ear that contained thin, bloody, foul-smelling pus Treatment locally, 10doform, internally, corrosive sublimate (gr 100 every hour), whisky and eggs Perfect recovery

Three cases occurred in one family by the name of

Hygienic surroundings good

September 14 Louisa, 11 years Malaise, slight pharyngitis, rash, which lasted twenty four hours Second day, perfectly well No sequalæ No des quamation

September 14 Mary, 9 years Eruption very full

In the course of a few days, ating and bleeding foul ulcer on right elbow, ulcer of genitals and perineum Sixth day, right kneered, swollen and tender Next day same symptoms in left knee and left wrist The disappearance of the latter symptoms in two days, under the use of sodu salicylic made the diagnosis of rheumatism probable Sudden death on fibula is about 21/2 inches above its lower extremity tenth day

sick September 17 In both cases eruption intense, face much swollen, so that the eyes were partially closed, cedema of hands, urine contained a trace of and deformities existing with these fractures albumen and a few casts On third and fourth days and uvula Both recovered completely

The ædema in these cases was apparently due to the intensity of the eruption, as in neither case did the examination of the urine warrant the diagnosis of Two other children that slept in Bright's disease the same room were not sick It is an interesting was confined, and convalesced without having any increased mobility are present is patent and easy peuperal fever She had no doctor or nurse

SUMMARY

Of these 50 cases, 4 died (1 in 12), all of diph theria These 4 cases are the only ones that died in my district, of scarlet fever, from April to January, the total number of cases being 88 This gives a suffering mortality of 1 in 22

It has been interesting to me, and very satisfactory, to find that I have not been called to a single case of scarlet fever in a family which I had attended previously for any other disease Of course it was impossible for me to think of changing my clothes, or even disinfecting the hands, before attending other cases

district 200

The eight and only cases of diphtheria all occurred in three weeks, and represented one third of the total number visited in the three weeks

Treatment -In mild cases, expectant In cases with high fever, tepid sponge baths and antipyrin In cases with diphtheria, brandy and tincture ferri chloridi

THE MEDICO LEGAL ASPECT OF POTT'S FRACTURE

Read b fore the Chicago Medico Legal Society, March 3, 1888

> BY L L McARTHUR, M D, OF CHICAGO

In venturing to call your attention to so common a fracture, it has been rather with a desire of impres sing, by repetition, what is already known, than to submit something new To do so let me, as briefly

Third day, membrane on uvula and pil- presenting a characteristic deformity It is not as lar of the fauces, mucous membrane of lips ulcer- many without reflection might think, a fracture of fibula simply

First, recall the fact that astragalus is so mortised between the malleoli that (except in extreme flexion or extension) little or no lateral movement of that bone is possible

Second, That the thinnest, weakest point of the

Third, That one of the lateral ligaments of the James, 3 years, and Anne, 4 years Both taken ankle are torn in about all the fractures of the lower extremities of tibia or fibula from indirect violence and you have explanation for the location, causation

Pott's fracture is always the result of indirect viorespectively a membrane appeared on the tonsils lence, occasioned by a forcible turning outwards of the sole of the foot The history would seem to be that fracture (from the great strain) of the tip of the internal malleolus occurs, the strain then falling suddenly upon the fibula that bone fractures also at its weakest point, leaving the deformity which characterizes the case in question The diagnosis when crefact that during the height of the disease the mother pitus at fibula, loss of tip of inner malleolus, and

> But though the fibula be fractured crepitus can in many cases not be obtained because the smallness of the broken ends tends but little to hold them together and as they generally overlap none can be felt, hence the too frequent treating of such an injury as a "sprain," with its subsequent weeks or years of The poor function of that ankle, and a possible suit for malpractice What then will be our best aids in arriving at a correct opinion?

First—Remembering the fact that the astragalus is practically immovable laterally when half way between flexion and extension, if we find the latter freely movable in such a position we may be pretty sure of To do this best the palm of right hand our case The new cases visited each month average in my should rest against the sole of foot, while the left grasps the leg just above the ankle, with the fingers tips and thumb of right hand grasping the astragulus (not as calcis and tarsus that are freely movable) one can try a lateral rocking movement, when if the bony supports on either side have given way the astragalous will move with it, otherwise not

Secondly -Since fracture of fibula can in but about half the cases be determined by crepitus, it is necessary to decide by some other means Recalling the fact that the lower tip of the external malleolus extends below the line of the articulating surface with astragalus, we can see how direct inward pressure upon that tip will determine the case for us For if it be not fracture it certainly cannot be budged, but if on the contrary there be a fracture above, the tip acts like the short arm of a lever, the fulcrum being at the articulating facet, and the long arm the lower end of shaft of the fibula, hence a decided teeter or rocking of the lower fragment can always be induced and be best perceived when the right thumb of the as is consistent with clearness, present the subject physician corresponds with the patient's right exter-by reviewing its surgical and anatomical aspects nal malleolus, his left with the corresponding left of nal malleolus, his left with the corresponding left of Pott's fracture has been defined as a fracture of the patient, while the finger-tips of the opposite hand fibula, combined with a fracture of tip of internal rest upon that portion of the fibula about its articumalleolus and laceration of internal lateral ligament, lating facet By alternating pressure at these two points, a fracture of fibula can always be determined though crepitus be absent

Finally, to be sure that we have the true Pott's fracture to deal with, comparison of the tip of the internal malleolus is necessary

Now the medico legal aspect which cases of this nature may assume is dependent wholly upon the subsequent treatment, and since proper treatment can only then be applied when a correct diagnosis has been made my emphasizing the means of diagnosing this fracture can be the more readily pardoned for a fixed medico-legal aspect in any case can only but few deaths can be laid to the use of iodine, and differential diagnoses we have to distinguish this from (1) laceration simply of the lateral ligaments (2) from simple tracture of the fibula (3) from simple fracture

Simple laceration of lateral ligaments is, according to authorities, comparatively rate When the tips of both internal malleoli correspond in shape, when there is no rocking of the fibula at its lower end, nor but little of the astragalus when pressed firmly into the mortise made by tibia and fibula it is fair to conclude that the ligaments have been torn

When both the tip of the internal malleolis is missing, rocking of astragalus and lower end of fibula is present a fairly sure diagnosis of Pott's fracture may be made (3) when with normal contour of internal malleolus tip, rocking of lower end of fibula over the fulcrum made by its articulating facet, and increased mobility of astragalus inwards is present a simple fracture of the fibula can be asserted to be present with reasonable confidence Now, since nature shows us a bony mortise normally present in the ankle, if we do not restore in so far as lies in our power the same close apposition of the articulating surfaces when these have been disturbed a medicolegal, with accent on the legal, phase soon presents itself. To accomplish this best the treatment recommended by Velpean is certainly the best either for fracture of fibula simple, Pott's fracture, or fracture of internal malleolus This consists of a long internal splint padded to fit the inner aspect of the leg, and extending (here is the important feature) several inches below the foot The sole of the foot is then made to face inwards against splint by bandaging, thus restoring 1, internal malleolar tip, 2, drawing bandage upon fibula, 3, relaxing internal lateral ligament

In conclusion let me reiterate,

- That the astragalus will not rock laterally
- 2 That the normal mortis be restored in so far as possible
- 3 That diagnosis of fibular fracture must not be dependent upon crepitus
- 4 That these chronic, long-lasting ankle sprains are most often accompanied by destruction of the normal mortise
- 5 That with laceration of univascular ligament or tissue there is far less hæmorrhage and consequent ecchymosis

MEDICAL PROGRESS.

RADICAL CURE OF HYDROCELE BY EXCISION OF TUNICA VAGINALIS - DR W W KEEN reports a successful case, in the Medical News of April 7, 1888, and says

Until recently various methods of injection, espe cially by iodine or carbolic acid, have been the chief and almost the only means employed in the treatment none, I believe, to carbolic acid But they have several disadvantages

First, that of recurrence In over eight percent of the cases treated by iodine, recurrence takes place, and this misfortune sometimes even occurs a second time Carbolic acid has been much less widely used, but its promise as to freedom from re currence is much better than iodine, and if injection be the method chosen, this would seem to be the preferable one

Secondly In a large number of cases additional lessons are found besides the hydrocele, lessons which in the majority of cases cannot be cured by any in Jection In 123 cases reported by Juillard and Senz mer, cysts were found in 43, enlargement of the tes ticle and epididymis in 23, thickening of the tunica vaginalis in 54, false membranes in 26, and free or attached foreign bodies in 3

Thirdly There is generally great pain

Fourthly Not seldom severe inflammation and swelling, sometimes suppuration, and occasionally even gangrene of the scrotum occurs

Fifthly Even if no such untoward results occur there are great induration, weight, and tenderness in the scrotum, such that the patient is usually laid up for three weeks, and sometimes longer

Three somewhat different methods of open anti septic incision have been proposed as substitutes for injection, and especially with a view to a more per manent radical cure Volkmann incises the sac, and after syringing it out with a three per cent solution of carbolic acid, unites the edges of the tunica vagi nalis to the skin, and, after drainage, dresses the wound with an antiseptic compressing gauze and

Juillard took a step further After incision of the sac, and removal of all pathological products by the scissors or spoon from the sac, cord, or testicle, he then resects the superfluous tunic, leaving only enough to cover the cord and testis The edges of the tunica vaginalis are then sutured with catgut and the external wound closed independently, drainage and antiseptic gauze completing the dressing

Bergmann (reported by Bramann, Berlin klin Wochenschr, April 6, 1885, p 209) went a step fur ther, and proposed the total extirpation of the free part of the tunica vaginalis only leaving that portion Of course, any attached to the cord and testis other concomitant lesions are appropriately treated Bramann reports twenty cases, at the same time with rapid cure in eleven days, without fever or sup puration Bull has reported two cases (hydrocele

of the cord) thus operated on, one of which had been twice injected with carbolic acid, and the other once Both rapidly recovered with iodine Southam (Lancet, September 10, 1887) reports four cases, one of which had recurred after carbolic acid injection. cured with an equally speedy and happy result

To these twenty-six cases I add but one, but it is an excellent illustration of the slight reaction following the operation, and of the quickness of the cure

It would seem, first, to be almost an impossibility that recurrence should take place, for practically none of the sac is left, and in so far it would be a priori the ideal radical operation

Secondly This method facilitates the proper treatment of any additional lesion above described as

not uncommon

Thirdly As is usual after antiseptic wounds, there was little or no pain

As again is the rule in wounds so treated, there was little inflammation practically no fever, not a drop of pus, and no seeming possibility of gangrene

Fifthly There were only moderate induration, weight, and tenderness, so that the patient was up and about on the seventh day, and was ready for discharge on the eleventh day entirely cured and comfortable

Sixthly Although a more radical operation than that of Volkmann, it is less painful and less danger-In 254 cases collected by the writer, recurrence is noted in three, and two died of septicæmia and pyæmia, while abscess, sloughing, and orchitis have all occurred Induration, weight, and tenderness have persisted from three to four weeks conditions after resection of the entire tunica vaginalis and immediate closure of the wound, with drainage, and antiseptic dressing, are such as to favor the speediest and safest recovery, without any of the dangers above noted as following antiseptic incision

The case is also a good illustration of "the conditions conducive to the earliest possible healing of operation wounds," to which I have called attention in a paper with the above title, read before the Surgical Section of the New York Academy of Medicine (Medical Record, January 28, 1888), especially the method of drainage by horsehair instead of rubber, wound, and the change of dressing on the day after the operation, recovery being complete in seven days

How to prescribe Digitalis -In an article on this subject HENRI HUCHARD gives the indications for digitalis in a number of affections, among which may be mentioned

i Cardiac Hypertrophy of Puberty and the Menopause -At the age of puberty, he thinks, the cardiac hypertrophy is consecutive to exaggerated arterial tension, and it is this that must be combatted attributes the cardiac hypertrophy at the menopause to arterio sclerosis, so that the cardiac hypertrophy at these two periods of life have practically the same pathogenesis both are consecutive to increased arternal tension In these cases digitalis should be pre

ing preference to depressors of arterial tension and to cardiac sedatives, such as the iodides, nitroglycerine, and preparations of aconite and arsenic

2 Nephritis and Asystolism of Renal Origin —In chronic parenchymatous nephritis digitalis should be prescribed with reserve, and the same may be said of all active substances that may be retained in the organism and cause intoxication by reason of faulty But as digitalis is not eliminated renal elimination naturally by the kidneys, albuminuria is not an absolute contraindication to its employment course and at the beginning of interstitial nephritis the arterial tension is considerably increased, and there is cardiac hypertrophy often associated with myocardial sclerosis, and diuresis is normal and often very abundant In these cases digitalis should not be prescribed, but arterial depressors, such as the iodides and nitroglycerine, should be given afterwards there comes a period—in parenchymatous, and especially nephritis-when the heart fails, or its contractions become feeble, or visceral congestions and peripheral ædemas cause lowered arterial and increased venous tension, and the kidneys are inac-The albuminum patient has now entered the cardiac stage, and is to be treated as a cardiac patient for asystolism Such simple diuretics as milk, squills, and nitrate of potash are insufficient, and preference must be given to the cardiac-vascular diuretics, among which digitalis occupies the first place In such cases "the conservation of the circulatory equilibrium and of the forces of the heart should be the object of the physician's constant attention," as Lecorche and Talamon say in their recent excellent work "Traite de l'Albuminuric et du Mal de Bright " They add, with reason, that cardiac tonics should not be reserved exclusively for advanced stages of Bright's disease, and they advise them at the time of the acute growth of the affection, when the heart tends to be enfeebled by the obstacle created by the renal affec-"We have obtained," they say, "remarkable results from digitalis given from the beginning of acute Bright's disease, the patient being at the same time subjected to an energetic antiphlogistic treatment The combination of the two methods, the diuretic and the antiphlogistic, seems to us to be the best means, in cases of this kind, to combat inflammatory glass, or bone tubing, as is suited best to so small a renal congestion and asthenic dilatation of the heart, and of preventing the necessary consequences, general anasarca and uræmic toxæmia"

In these cases, also, as in all cases of asystolism of renal origin, another cardiac-vascular diuretic, caffeine, must be used, and this sometimes acts with a promptitude superior to digitalis, has no cumulative effects, and is eliminated more rapidly and more The pure caffeine may be given, as by the surely following formula

> Distilled water 300 grams, Benzoate of soda Caffeine aa 5 grams

S Take 4 to 6 tablespoonfuls a day

3 Digitalis in Aneurisms of the Aorta -Most scribed as a sedative in small doses, and always giv- aortic aneurism, that it calms palpitations, diminishes

86 parts.

dyspnoa, and is indicated as an agent having a seda- the mouth of the follicle tive effect on the circulation it moderates the blood impulse in the arteries the effect is just the opposite, for digitalis increases the blood wave through the aorta, and raises the arterial tension, already heightened by the aneurism

Bouilland has rendered great service to medicine by first indicating good effects obtained in aortic aneurisms by the use of the iodides These have not only a modifying action on the arterial walls, but also, and especially, as depressors of the vascular Huchard uses iodide of sodium, which is just as active as the potassium salt, is better supported by the stomach, is more assimilable, and does not as the potassium salt, cause toxic effects on the heart and general system, by means of the renal insufficiency to which all patients suffering from arterial affections are exposed Huchard uses the following formula

300 grams Distilled water Iodide of sodium 20 o os centig Ext thebrie

Take from 2 to 4, or even 5 tablespoonfuls a day before eating in a little beer (to mask the taste) Continue this during 20 or 25 days every month

It is for the same vaso-dilating action that he gives nitroglycerine

Alcohol solution (1 100) nitroglycerine 300 grams

Take from 3 to 6 tablespoonfulls a day Or give the 1 100 alcoholic solution of nitroglycerine, 6, 15, or 20 gtt a day in 2 gtt doses. The dose must be diminished or suspended when the medicine causes headache

The principal indication in aortic aneurism is to The principles of treatreduce the mass of blood ment announced by Albertini and Vasalva, Kirby, Beatty and Stokes, show that digitalis must be given very cautiously, and in small doses, if we wish to obtain only a sedative effect Preference should be given to doses of 10 to 20 gtt of the tincture, or 5 to 10 centig of the infusion, and Huchard recommends that it be given in slightly increasing doses, since if the effect be got suddenly rupture of the aneurismal sac may be caused

But later, when the arterial lesion is propagated to the coronary arteries, and the cardiac muscle is more or less altered, the malady is no longer simply aortic, Then digitalis is indicated in but is now mitral large and decreasing doses, to relieve the failing action of the heart muscle, and to combat imminent asystolism - Revue Gen de Clin et de Therap, March 29, 1888

THE TREATMENT OF ACNE -When UNNA takes up even an old theme we expect him to treat it in a new way, nor are we disappointed in the paper now before us ("Monatshit f p Dermat," 1888, No 1) He divides acne into two chinical divisions i The process of closing of the follicle and formation of the 2 The process of suppuration of the fol-Comedones are to him only the evidence of the abnormally close coherence of the corneous layer The corneous layer becomes thickened and closes chronic metritis—Centralbl für Gynäk No 8, 1888

The comedo forms on Luton even says that account of the continuance of the parakeratosis on the inside of the follicle Suppuration only succeeds to the comedo formation in those follicles which con tained Staphylococcus aureus et albus before they became closed, or into which they have entered on account of some subsequent irritation, as from tar, chrysarobin, or the like, permitting their breaking through the walls of the glands The indications to be met in the treatment of acne are two 1 The loosening of the corneous layer of the skin 2 The killing of the staphylococcus We can fulfill the first indication in public practice by the use of green soap, acetic acid, a 5 per cent caustic potash solution, and salicylic-acid plaster In private practice these are too rough procedures, and it is better to use sulphur with carbolic acid, or resorcin with corrosive subli Two or three times a week it is well to scrape off the whole diseased parts with the curette, open all the pustules, and squeeze out all comedones The patients should wash with warm water and soap, and follow this, if their skins are tender, with a powder of oxide of zinc and flour During the night the medi cament is best applied in a paste, during the day in a watery or spirituous solution, two or three times daily Thus at night we might prescribe after washing

R Benzomated zinc ointment Precipitated sulphur Siliceous earth	86 parts. 10 " 4 "
nd by day R Resorcin	2 to 5 parts 1 part
Glycerin Orange flower water Alcohol	20 parts. 80 "
r by night R Benzoinated zinc ointment Resorcin Siliceous earth	So parts 10 " 10 "
nd by day	
R Corrosive sublimate Glycerin Orange flower water Alcohol	0 05 to 0 2 part 1 " 20 parts 80 "

After the acne is pretty well overcome by these means, it is well for some time to use a resorcin paste, or a resorcin-sublimate-spirituous solution, or simply sublimate soap -N Y Med Jour, April 21, 1888

Hypodermatics of Arsenic in Chorea - Make a mixture of equal parts of Fowler's solution and distilled water Begin by injecting one drop into the subcutaneous cellular tissue, and increase the quantity one drop a day until eight or ten drops are being injected, when the quantity is reduced one drop a day If necessary repeat - Gazette Med de Montreal, January, 1888

CORNUTIN -LEONIDAS LEWITZSKI (Inaug Diss, St Petersburg, 1887) after a number of experiments, concludes that Kobart's cornutin is one of the most certain means (when administered by the mouth) of causing contractions of both the pregnant and non pregnant human uterus, and is especially useful in hæmorrhage after abortion, and in menorrhagia from

THE

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events or matters that it is desirable to call to the attention of the profession Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published All com munications in regard to editorial work should be addressed to the Editor

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TRANSACTIONS OF THE NINTH INTERNA TIONAL MEDICAL CONGRESS

The first two, and perhaps three, volumes of the Transactions, will be ready for issue at the Cincinnati meeting of the American Medical Association, to such members of the Congress as shall notify the Chairman of the local Committee of Arrangements, Dr W W Dawson, of their desire to receive them at that time and place To insure delivery notice must be immediately given

> JOHN B HAMILTON, Late Secretary General

PUERPERAL MASTITIS

Not the least significant outgrowth of the Semmelweiss doctrine of puerperal fever is presented in modern views as to the causation and prevention of puerperal mastitis Olshausen¹ has given at a recent date an uncommonly clear and concise summary of intelligible and entirely efficient the more important facts in connection with this sub-In the following note, free use is made of this essay, not only on account of its authoritative source, but also because it is adequately representative of the state of our present knowledge

Every case of puerperal mastitis is due to infec-Now, it is necessary to distinguish between the physiological turgescence of the mammæ and

1 Deutsche Medicinische Wochenschrift No 14 1985 Schroeder's Lehrbuch der Geburtshulfe 10 Auflage von Olshausen und J. Veit

The former occurs parenchymatous inflammation usually on the second or third day of the puerperium, and is characterized by symmetrical enlargement and rotundity of the organs, while the latter commences during the second or third week-seldom earlier than the sixth day-and begins in a circumscribed spot This proposition shuts out at once from consideration the operation of such agents as retention or impeded flow of milk, exposure to cold, mental disturbance and the like, as primary factors We are all of us familiar with the important rôle formerly assigned these agents in the etiology of mammary abscess Indeed, traces enough of this erroneous and pernicious belief may still be found in many of our best text-books Investigation proves that infection may occur through two channels through the lumina of the milk ducts and through abrasions, cracks or fissures of the nipple Experience and clinical observation teach that the former is the more frequent mode of infection cherich and Bumm have demonstrated the presence of pathogenous bacteria in the milk before any inflammation of the gland was noticeable The invasion consists, as a rule, of staphylococcus Cohn found a peculiar streptococcus in cases of non suppurative, parenchymatous mastitis When the infection takes place directly through nipple lesion, the materia peccans gains access to the connective tissue spaces and phlegmonous mastitis is the typical result coccus pyogenes is the potent microorganism under these conditions

While retention or impeded flow of milk is not a primary etiological factor, either certainly may play an important adjuvant part Under the influence of the bacteria, the secretion is decomposed, loses its alkaline reaction, and free acids-lactic and butyricare developed Galactostasis favors in this manner the settlement of bacteria

Kucher aptly says "The chapter on prevention 1. the crowning glory of Semmelweiss' theory," and so it is in the case of the modern doctrine of puer peral mastitis Prophylactic measures are simple,

The nipples must be carefully cleansed every day during the latter weeks of pregnancy with some antiseptic fluid, such as a saturated solution of boracic acid or alcohol, and then they must be protected from contact with the clothing by sterilized gauze

During lactation, they must be similarly cleansed and protected after each nursing The child's mouth must also be kept perfectly clean of the nipple, which the preliminary treatment during pregnancy will largely prevent, must be observed

as soon as they appear strict antiseptic treatment

The same absolutely antiseptic condition of the fingers of the attendant is requisite when the nipples are handled, as when any operation in connection with genito-urinary apparatus of the puerperal Much the same responsiwoman is undertaken bility attaches to the physician and the nurse with reference to mammary abscess, as in the case of That is the physician and the puerperal fever nurse, provided the care of the patient has been completely in their hands, are responsible theoretic-Either they have ally for the unfortunate accident neglected to institute the precautions, plainly indi cated, or they have themselves infected nipples This is not at all a pleasant doctrine for the practitioner, but is a very wholesome one for the patient

When mastitis actually begins, the child must be removed from the affected breast immediately, and not at a time when the inflammation has already at-"When this pretained considerable proportions caution is neglected," writes Olshausen, "or when it is not observed within the first twenty-four hours after the chill, which almost always characterizes the beginning of the disease, suppuration almost always If the child is at once removed from the affected breast, in three-fourths, or more, of the cases, the mastitis will be cut short " In addition to the cessation of functional activity, the breast ought to be suspended, an ice-bag applied, and a purgative exhibited

Olshausen has observed that when the fever continues longer than thirty-six hours, suppuration This limit seems to us too almost invariably results brief, as certain cases of undoubted parenchymatous mastifis have come under our observation, in which resolutions has occurred even when the fever lasted as long as forty-eight or even seventy-two hours

w w J

TWO NEW TFREBINTHINATES

The revival of interest in the terebinthinates of late has resulted in the extensive use of terebine in bronchial affections DR PROSSER JAMES has recently called attention, in the Lancet, March 10, 1888, to two other allied products, and more particularly to their use in These are diseases of the respiratory mucous tract the essential oil of the mountain pine, and hydrate of

Lambert, is the tree from which exudes the Hungarian taken in lozenges or on a lump of sugar, just as tere balsam, once so highly prized

They demand at once young branches with water a volatile oil is obtained. which has been known for a long time as "oleum templinum" or "Krummolzol," and is the most po tent agent in the so-called "pine cure" of Reichen hall and other German spas As the vapor of the water escapes into the inhalation rooms it is medi cated with the volatile oil By an improved process and apparatus, and care in selecting the material, a much finer product is now obtained—a very pure essential oil, oleum pini pumilionis, which has been imported into England under the name pumiline It has the odor of the most fragrant variety of the pine, and is less irritating than other fir oils When sprin kled or sprayed about a sick-room, says Dr James, it imparts a lasting and grateful fragrance to the air, which is not oppressive, and seems to be disinfectant, or it may be thrown into a little warm water and allowed to evaporate, or it may be diffused by a steam inhaler, or a hand-ball atomizer

This oil can be taken internally, and is admirable When prolonged inhalation is desired for inhalation a few drops may be put in a suitable respirator, and patients frequently prefer it to other inhalants short steam inhalations from 10 to 20 drops may be put into any common inhaler half full of water at 150° to 160° F, and the vapor inhaled, but it is better to diffuse the oil through water by magnesia, powdered silex, or prepared talc in the proportion of 40 to 60 minims of oil to 20 grains of magnesia and 1 ounce One teaspoonful of this mixture added to of water 8 ounces of cold water is stirred in the inhaler, and when 8 ounces of boiling water are added a con venient temperature is obtained, as it cools a little more boiling water is added, if it be desired to pro This is milder than the B P long the inhalation vapor olei pini sylvestris, and may be used when that "It is a very mild stimulant to the is too irritating mucous membrane, and an agreeable remedy for inhalation in relaxation, congestion and chronic catarrhal affections of the respiratory tract pini pumilionis is also an excellent addition to other inhalations, such as creasote and various essential It disguises the disagreeable odor of some and imparts its own fragrance to others" Dr James has used it to disguise the smell of iodoform, but the mixture should be freshly prepared, as after a few days decomposition takes place with the liberation The oil mixes well with eucalyptol of free 10dine and other inhalants

For internal use the dose of the oleum pini pumil The Mountain Pine, Mugho, or Pinus pumilio of ionis is from 1 to 5 minims, and small doses may be By distilling the bine is often taken, or a tragacanth mixture may be

made, or larger doses may be given in capsules When taken internally the drug acts as a carminative It is easily and quickly absorbed, and in the blood and tissues probably behaves like other terebinthinates "It is its action on the bronchial membrane during excretion that renders it valuable in disease of this surface, being a stimulant, expectorant, and disinfectant, hence indicated in chronic bronchitis, dilatation of bronchi, bronchorrhœa, some states of phthisis, and other affections The effect on the kidneys, however, should not be forgotten The violet odor of the urine is produced as with some other terebinthinates, and small doses seem diuretic, but its use in diseases of the unnary passages manifestly requires care" It may be used externally sprinkled on flannel, or on spongio piline It is said to be a cleanly, prompt, and useful stimulant and counter-irritant, and sometimes appears to have slight anæsthetic properties

The second terebinthinate, terpin hydrate, is very different from the oleum pini pumilionis It has no odor, but little taste, is rather insoluble, and is solid When crystallized spontaneously from a mixture of turpentine and water it appears as small needles, or it may be obtained in large rhombic crystals by allowing 3 parts of alcohol, 4 of turpentine, and 1 of nitric acid to stand in shallow dishes for 3 or 4 days It is only sparingly soluble in cold water or tupentine, but more soluble in hot-water, alcohol and ether, on account of its slight solubility it is best given in pill or wafer It may be dissolved in warm glycerin and then an equal quantity of some syrup may be added, which makes a suitable linctus From 16 to 24 grains to 1 ounce gives 2 to 3 grains to the teaspoonfull, a dose that can be taken every 3 or 4 hours Small doses, such as the above, should be used at first, since they are often sufficient for the bronchial affection, and may affect the hidneys, for large doses given to animals have caused hæmaturia. The effects of terpin hydrate are similar to those of other terebinthinates, and it is useful sometimes as a substitute for them on account of being tasteless and odorless

It restrains the cough and secretion of bronchitis, stimulating the bronchial membrane to healthier action and Germain See has found full doses restrain the copious sputa of some cases of phthisis, and had no case of gastric disturbance after long use of the drug, though others have been less fortunate. In some cases small doses seem to increase the bronchial secretion. It has been used successfully in hæmoptysis, and in some cases it is mildly diuretic. Its alleged hypnotic property is probably due to the rapid relief to the cough.

RELATION OF SCROFULOUS GLAND DISEASE TO OTHER FORMS OF TUBERCULOSIS

MR FREDERICK S Eve has recently published a series of experiments (in the British Medical Journal, of April 14, 1888) undertaken for the purpose of determining the relation of scrofulous gland disease to other forms of tuberculosis It will be remembered that some experiments by M S Arloing appeared to prove that inoculation with material from scrofulous glands was innocuous to rabbits, while it produced general tuberculosis in guinea pigs From his experiments he inferred that either scrofula and tuberculosis were nearly allied affections, but caused by different agents, or they were derived from a single virus, of which the activity was modified in the scrofulous form

Mr Eve's experiments were made with small fragments of the glands prepared with sterilized instruments, "and the possibility of infection of the animals with true tuberculosis was negatived by the precautions taken " In his experiments the inoculations uniformly caused tuberculosis While he shows that the virus of strumous gland disease produces visceral tuberculosis in rabbits as well as in guineapigs, he admits that the disease in rabbits is not so acute and rapidly fatal as that following inoculation with acute miliary tubercle "The difference is one of degree, not of a kind permitting us to infer, with Arloing, that struma is a specialized form of the tuberculous virus We must therefore fall back on another explanation of the clinically innocent course of strumous gland disease, and we find it probably in the locality or soil in which the virus is implanted Taking cervical gland disease, if the virus is not inherited from a consumptive or strumous parent, it may be surmised that the common bacillus of phthisis is implanted in the lymph follicles of the pharynx or tonsils, in one of the adjoining mucous membranes on the skin, and is carried direct to the These, acting as filters, arrest its progress permanently, except in some cases in which suppuration and ulceration take place, when the surrounding textures may become implicated, and general dissemination ensue The malignancy of the virus may be somewhat attenuated under the local influence of the lymph-cells and leucocytes in the gland, but to admit that the virus producing the disease is ab initio specialized, would be to infer that the strumous disease could only be produced by the virus of struma, and no other" Mr Eve emphasizes the objections to the terms "scrofula" and "struma" for lesions resembling tuberculosis The evidence that tends to connect strumous gland disease more

closely with general tuberculous affections should encourage the practice of early operation, whenever possible, with the view of completely eradicating the

THE MONUMENT FUND IN HONOR OF DR BEN-JAMIN RUSH

Two years since the American Medical Association adopted resolutions in favor of having a suitable monument erected in Washington to the memory of Dr Benjamin Rush, of Philadelphia, who died in Preeminent as a physician, a medical teacher and writer, a tried patriot and statesman, actively participating in the struggle that gave birth to the Nation and one of the distinguished signers of the Declaration of Independence of 1776, and an example of the purity of private and social life, no other name could have been chosen that would so appropriately represent the medical profession on an enduring monument among the many that adorn the parks and lawns of our National capital

A Committee was appointed to receive subscriptions for the purpose in sums of one dollar and upwards, from members of the profession in every part of the country It was ascertained that the contribution of the small sum of \$1 by each active practitioner of medicine in the United States would aggregate a sum amply sufficient for the purpose intended, and it was thought that very few members of the profession would hesitate an hour before sending their mite after the way had been prepared for them to do Dr A L Gihon, U S N, was made Chairman of the Committee, Dr G H Rohé, of Baltimore, Secretary, and Dr J M Toner, of Washington, Treasurer

The report of the Treasurer at the last annual meeting of the American Medical Association showed only a fair beginning in the receipt of contributions, and we have received intimations recently that much less progress has been made since that meeting than the Committe had reason to expect This is not so much from reluctance to give the \$1, as it is neglect to enclose the amount in a note and mail it to the address of the Treasurer of the Committee or to any one of the sub-treasurers appointed in the several This is illustrated by what recently took place at the annual meeting of the California State Medical Society when, after Dr Gihon had briefly directed the attention of the Society to the subject, every member present, numbering 106, cheerfully contributed his \$1 at once If the subject was properly presented at any regular meeting, with some one present authorized to receive the money, an equally country will subscribe for at least one copy

ready response would be obtained in every regular medical Society in the country We earnestly invite the immediate attention, not only of the members of organized medical societies, but of every member of the profession, and ask them to contribute their mite to so worthy an object without delay

EDITORIAL NOTES

LECTURES ON INEBRIETY -Dr T D Crothers, of Hartford, Conn, is to deliver a course of lectures on "Inebriety as a Disease and its Medical Jurispru dence," before the medical students of the University of Vermont at Burlington, May 21, 22 and 23, 1888 This is the second course of lectures on this important subject delivered to medical classes in this coun try, and indicates progress in the right direction

UNIQUE REMOVAL OF THE UTERUS -DR B B Browne, of Baltimore, applied a saturated solution of chloride of zinc to a cancerous uterus by means of a tampon which was held in place by absorbent Below the cotton he placed a second tampon which was saturated with bicarb soda and glycerin On the seventh day the tampons were removed, and on the tenth day the uterus in its en tirety sloughed and came away The specimen was exhibited before the Clinical Society of Maryland

Dr D Hayes Agnew's Fiftieth Anniversary -On the occasion of Dr Agnew's fiftieth anniversary in the profession recently a reception was given him by a number of professional men in Philadelphia On April 23 the alumni and students of the Medical Department of the University of Pennsylvania gave him a reception At the coming Commencement of the University of Pennsylvania its highest academic honors will be conferred upon the distinguished sur geon and teacher

DEATH OF DR J FORD PRIOLEAU -Dr J Ford Prioleau, of Charleston, S C, died at the residence of his son in Beaufort, on Wednesday, April 11, aged He was born in Charleston, and was graduated from the Medical College of the State of South Car olina in 1847 Since 1871 he has been Professor of Obstetrics, and since 1881 Dean of this College He was a member of the American Medical Associ ation

THE INDEX MEDICUS —The generous publisher of this most valuable periodical has sent out a circular stating that the Index is not self supporting not too much to ask that every medical society in the

unquestionably the most valuable medical periodical published in the world, and is indispensable to a literary worker

Porro Operation in Queensland—Mr H C Garde, Surgeon to the Maryborough Hospital, Queensland, reports, in the Australian Medical Gazette, March, 1888, a successful Porro operation for rachitic pelvis, 15 inch antero-posterior diameter, on a woman 23 years old, primipara The stump was treated in the abdominal wound The child, a son, survived

THE ITALIAN SOCIETY OF HYGIENE will hold its second congress in Brescia, on September 1, 2, and 3, 1888 There will be an exhibition of publications on hygienic and alhed subjects, of hygienic instruments, apparatus, and appliance, and of chemical and pharmaceutical products related to hygiene

DR HERMANN KRAUSE, Privat docent in the University of Berlin, who has been in attendance on the Emperor of Germany, has been made Professor of Laryngology

THE ROCKY MOUNTAIN MEDICAL ASSOCIATION will hold its annual meeting on Wednesday evening, May 9, in the parlor of the Burnett House, Cincinnati, at 8 o'clock

DR August von Rothmund, Professor of Ophthalmology in the University of Munich, celebrated his 25th anniversary as a teacher on March 20

An International Exposition of Hygiene and Life Saving and Preserving Apparatus will be opened in Ostend on June 3

DEATHS OF FOREIGN MEDICAL MEN—DR ROB-ERT DE LATOUR, of St Cloud, on April 4, aged 86 Dr Nikolai Ritter, of St Petersburg

ASSOCIATION ITEMS.

THIRTY-NINTH ANNUAL MEETING

To be held in Cincinnati, Ohio, May 8, 9, 10 and 11, 1888

PRESIDENT, A Y P GARNETT, M D, of Washington, D C

PAPERS AND DISCUSSIONS

The following additional titles of papers to be read at the approaching meeting have been received since the programme was published in the issues of The Journal for April 7, 14, 21 and 28

Section on Dermatology and Syphilography

"The Galvanic Current as a-means of Inducing the Penetration of Parisiticide Remedies to the Inaccessible Parts, as Hair Follicles etc.," "Report of an Unusual Case of Nervous Pigmentosus, with Illustration," "Report of a Case of Tinea Favosa of the Forearm, with Illustration," by Henry J Reynolds, Chicago

Section on Surgery and Anatomy

"A New Method of Treatment of Diseases of the Urethra Bladder, Uterus, and Rectum, Dry Medication, Dry Syringe Illustrated" By Elmer Lee, St Louis

Railway Arrangements

MONON ROUTE —Those unable to go by the special train of the Monon Route on Monday night may go on any day train on Saturday, Sunday, or Tuesday See advertisement on page 8

PAN HANDLE ROUTE—Attention is called to the advertisement of the Pan Handle Route on page 9 of this issue of The Journal. The Pan Handle is the pioneer through car line to Cincinnati, and is a portion of the Pennsylvania lines west of Pittsburgh, which should be a sufficient guarantee that any one patronizing the Pan Handle will have a pleasant and comfortable trip to Cincinnati

The Kankakee Line —This popular and direct line has made arrangements to run trains for the meeting of the Association at Cincinnati The times of departure and arrival are as follows Leave Chicago 9 10 A M, arrive at Cincinnati 7 15 P M, leave Chicago at 8 P M, arrive at Cincinnati 7 30 A M Parlor cars on day trains, Pullman Sleepers and Reclining Chairs on night trains This is the only line from Chicago entering the Grand Central Depot at Cincinnati, which is situated in the heart of the city, and in the immediate vicinity of the hotels and business centre Rates of fare same as on other lines For further information call at city ticket office, 121 Randolph Street, Chicago, or address J C Tucker, General N W Pass Agent

SOCIETY PROCEEDINGS.

MEDICAL AND CHIRURGICAL FACULTY OF MARYLAND

Ninetieth Annual Session, held at Baltimore, April 24, 25 and 26, 1888

TUESDAY, APRIL 24-FIRST DAY

The Medical and Chirurgical Faculty of Maryland convened for its ninetieth annual session in the hall of the Faculty, Tuesday, April 24th, at 12 30 PM, the President, DR I E ATKINSON, in the Chair, and Drs G L Taneyhill and Robert T Wilson, Secretaries

The President's Address was then made, on the subject of

MEDICAL CHARITIES

He began by speaking of the evil effects of indis-

criminate alms giving and poor relief, and its tendency to pauperize the recipients Much of such charity does a small fraction of good, but intensifies the munity. We should work toward the perfection of very evils that it is intended to arrest Fortunately | there are many with wealth, kindliness of heart, clearness of brain, and energy of hand, who realize that the bestowal of alms is not always true charity, that assistance to the unworthy may prove unjust to the deserving and meritricious to the recip-1 large class also does good by distributing The outcome of all such the bounty of others united efforts at systematic charity resulted in the formation, in several cities, of Charity Organization They have done immense benefit to the It may be profitable to considthe deserving poor er the administration of medical charity—a subject Generally those worthy of attention, and not trite who stand most in need of assistance are those whose misfortunes are the more or less imminent results of Two classes receive charitable their own actions (1) Those who from disease, age or infirmity are made to work for a livelihood, and (2) those who, suffering from neither of the disabling causes mentioned, live in idleness All in the first class need help, and not all in the second class should Able-bodied paupers exist now since be excluded the days of strikes The well and healthy laborer may find, as a result of his toil, enough compensation to supply his daily wants, but when sickness appears he appeals to charity for support In 1872 London, with four million inhabitants, treated gratuitously at the various hospitals and dispensaries about 1,100,000 sick, 58,382 as in-patients, and 1,083,674 as out-patients, and in this year £994,388 were contributed to this object, that is three persons in every ten of London received medical charity in 1872. The stress of work on the medical attendant in these dispensaries is so great that in one hospital (St Bartholomew's) dispensary 120 patients were seen and dismissed in 70 minutes, that is 35 Pauperism often begins seconds for each patient Patients able to pay are daily seen in in this way The competition of our dispensaries and hospitals medical schools for clinical material, and the desire of medical men for clinical experience, encourages The "Provident Dispensary Plan," started by Smith, of Southam, England, in 1837, has not been the success it should be In 1874 there were only 11 such dispensaries in London & O R R Relief Association is a good example of an excellent organization for medical relief In all such institutions membership must be compulsory The American laborer and poor man is less willing to go to hospital in this country than in England Our hospital arrangements are defective and their equipment and management inadequate York there are 3502 public free beds, and 1418 private free beds, while in Baltimore there are only 868 free beds, of which 365 are in the almshouse ganized charity would soon weed out the undeserving sacs there is doubt cases, and the saving would more than compensate for the expense of investigation by paid officers of the amount of good which the medical man does importance of making the operation radical, and the

Even the Johns Hopkins Hospital, with 120 free beds, cannot fulfill all the requirements of this comour medical charity, and strive for improvement in the future

DR CHRISTOPHER JOHNSTON, SR, as Chairman of the Section on Surgery, then read a paper on

TETANUS AND ERYSIPELAS

The great cavities of the body are boldly visited by the surgeon both for cure and diagnosis Laparotomy has passed through many different stages, and Sanger's operation is now performed at the right time with good results Two young surgeons in the city have recently done it Diagnosis, pathology, and the means of cure march hand in hand Brain surgery is enlightened through the discoveries of physi Tetanus and erysipelas are ology and pahthology described both as idiopathic and traumatic Most writers believe now that the disease cannot originate Cold and damp seem to have much to do with the causation of tetanus, but a causative injury cannot always be found Gross says it is a peculiar The dualists believe in the affection of the nerves two forms, and the unicist in the single form of tet Nicolaier and Flugge believe in the bacillus of tetanus as a cause, but think that other agencies, Verneuil is a dualist such as damp and cold, help Certain localities seem to favor it There is a tetanic district near Baltimore, and one on Long Island Experiments made with the soil of these districts have not been convincing It is infectious, and may be conveyed from man to rabbit, and from rabbit to Some veterinary surgeons have had a succession of cases after operation for castration, and this was evidently due to infected instruments, which can retain the materies morbs for a long time Those who have much to do with horses seem to be more exposed than others Rosenbach also discovered a microbe, and Brieger several ptomaines called tov-In erysipelas there is little doubt as to its causation by a microbe Fehleisen has done the best work here

DR ROBERT W JOHNSON made a supplementary report on

THE TREATMENT OF THE SAC IN HERNIA

After dwelling on the danger of hernia and its im portant place in surgery, he gave a short historical sketch of the early manner of operation Some think that if a truss can be comfortably worn in non stran gulated hernia, an operation is not justifiable thought there were times when an operation should be performed to cause a radical cure, for, as in the case of a sailor at sea, a broken truss would give much pain and do immense harm of cases are

- Those under easy control of the truss
- 3 Strangulated cases, about the contents of whose

If a truss be worn it should be fitted carefully by

DR J EDWIN MICHAEL called attention to the the physician

fact that there was not so much risk of an operation for non-strangulated herma if done carefully The patient should be instructed before of this risk He used silver sutures, and did not find that they cut the tissue

DR J W CHAMBERS had done three such operations of late, and had little rise of temperature in one case He used catgut

WEDNESDAY, APRIL 25-SECOND DAY

The Annual Address was then delivered by DR RICHARD GUNDRY, Superintendent of the Maryland Hospital for the Insane He announced as his subject,

SOME PROBLEMS IN MENTAL ACTION

In a scholarly and chaste address he traced the various causes of insanity There are three causes to which it is referable, inheritance, environment and personality Each of these influences was considered As methods of prophylaxis and at some length treatment he urged the importance of manual training as a means of mental diversion and training Those predisposed to insanity, he asserted, should early be taught the lesson of self-control hibitory power of physical exercise may be seen in various ways A noisy, blasphemous boy was quiet all the week while at work, was noisy on Sunday until made to work on that day when he became quiet The inebriate, the vicious can all be reclaimed by methods of substitution provided they themselves seize the idea and do not let it slip away

Character may be largely formed by circumstances but our own desires have much to do with shaping

these circumstances

DR P C WILLIAMS, Chairman of the Section on PRACTICE OF MEDICINE made the following report He called attention of the Faculty to several important points

1 We should recognize the meeting of the International Medical Congress held at Washington last year as and event in the medical history of the world and of our country

2 Several clinical points are of great interest

a The peculiar epidemic of measles in Baltimore this year It was widespread, severe, showed unusual nervous symptoms, and unusually high temperature at a late period of the disease with no inflammatory trouble in the lungs and few cases of secondary pneumonia.

Extreme mortality and gradual increase of cases of measles in Baltimore during the past winter From October to March, included, there were 149 deaths from measles, beginning with 3 in October and ending with 49 in March A serious result for a disease disease

usually considered trivial

b Prevalence and mortality of pneumonia in Bal-From October to March, included, there were 485 deaths from pneumonia in Baltimore, begin ning with 33 in October and ending with 133 in March There were many cases among the young Before 45 single pneumonia is not usually considered dangerous It is a question whether it is an inflammatory or contagious disease

c There has been a great prevalence of serous diarrhœa, apparently due to climatic changes and not to bad water

d Fifteen years ago he read a paper on the use of yellow jessamine in supra orbital neuralgia. Believes it now almost a specific, next to ergot, in cerebral congestion The tincture is used, and a stronger tincture is used than usual He stops it when ptosis

DR GEORGE J PRESTON then made a supplemen-

tary report on the subject of

PERICÆCAL INFLAMMATION

After speaking of the ease of opening the peritoneal cavity without danger, he said that the terms perityphlitis, perityphlitis and appendicitis were cumbersome and probably not correct, as it was doubtful if one occurred alone in man The best division is into 1 Typhlitis stercoralis, 2 Perityphlitis, 3 Appendicitis After reviewing the anatomy he said that appendicitis was not easily recognized during life He enumerated the number of objects found in the cæcum The symptomatology is quite It is not easy to speak of its duration Occasionally the sacruptures, and again it sometimes takes on a chronic form After speaking of the etiology, he said that cases of perityphlitis and typhoid fever were not seldom confused The prognosis of simple typhlitis is good if all obstruction be removed Sulphate of magnesia is dangerous with inflammation An operation should be avoided, but pus should be evacuated, and the evacuating needle as an aid to diagnosis is not so dangerous as was supposed cited two cases from his own practice, in one of which an operation was performed with good results

DR WILLIAM B CANFIELD, in referring to Dr Williams' paper, spoke of the part which intemperance played in the large mortality from pneumonia among the younger adults, and also of the contagious element of the disease, as well as its inflammatory

DR JOSEPH T SMITH spoke of bad and unfiltered

water as causing diarrhœa.

DR P C WILLIAMS replied that intemperance increased the mortality of all diseases About 70 per cent in hospital die of diseases in which intemperance played an important part In the first quarter of 1887 there were 199 deaths from pneumonia in Baltimore, and in the first quarter of 1888, 335 He believed in the inflammatory theory deaths

DR WM RICKERT approved of recognizing the International Medical Congress He thought that climate had much to do with the causation of pneumonia, diarrhœa and dysentery He thought that supra-orbital neuralgia was a symptom and not a

DR RICHARD GUNDRY recalled treatment by bleed-He thinks little of treatment, but prefers small doses frequently repeated He fully believes that diarrhœa and dysentery are due to climatic changes

DR L E NEALE then read a paper comparing CÆSAREAN SECTION AND CRANIOTOMY ON THE LIVING

CHILD

After reciting two cases he proceeded to mention

the best possible treatment of contracted pelvis by

Removal of the uterine appendages before con- should be paid for it by the Government ception occurs

2 Induction of premature labor at a period of or private houses

extra-uterine feetal viability

After speaking of delivery by version forceps and other means in contracted pelves, he said the last resort was Casarean section, or craniotomy motomy destroys one half of the human lives at stake, while Singer's operation as now performed saves almost all mothers and children He does not believe that pelvimetry on the living subject at term is always sufficiently accurate to be a guide, for we have no means of measuring the head of the unborn It does not seem as if, the natural passages being 215 inches conjugate, the line of natural delivery should be drawn there Craniotomy does not seem right when death is certain for the child, while Casarean section gives them both a chance

DR J H BRANHAM thought too little was said about the mortality to the child The operation should be done at the time of election, and this is not at full term

DR GEO W MILLENBERGER said that a week or two before full term was an equally favorable time The uterus was just as capable of contracting, and it had no effect on the mortality of the child

DR J H BRANHAM thought that a week or two earlier made a great difference in the viability of the child, he also thought that we could judge of the

arrival of full term by the cervix

DR GEO W MUITENBERGER did not agree with Dr Branham at all In a large proportion of primipara, children are delivered one or two weeks before the time with no harm to mother or child was not possible to make such hair-splitting distinctions in the condition of the cervix

DR WILMER BRINTON thought that more stress should have been laid on pelvimetry, and the result would decide as to craniotomy or Cæsarean section He did not think that foreign statistics of operation could apply to this country

DR L E NEALE, in conclusion, said that he operated as near full term as it was possible to find He does practice pelvimetry, but it does not always

seem free from difficulties

THURSDAY, APRIL 26-THIRD DAY

DR GEORGE H ROHÉ, Chairman of the Section on Sanitary Science, read a paper on

RESTRICTION OF CONTAGIOUS AND INFECTIOUS DISEASES

Of the deaths in Baltimore during the past five years, 43 2 per cent were due to infectious diseases, in which are included pneumonia, consumption and Many of the diseases may be prevented diarrhœa Diseases are imported and by sanitary measures There are many defects in quarantine in domestic There are three ways of preventing dis-Baltimore eases, by

r Compulsory notification of contagious diseases

2 Isolation

3 Prompt disinfection

1 The physician should report such diseases and

2 Isolation is very important, whether in hospital

3 Disinfection may be effectually carried out by mercuric chloride (1-500), chloride of lime, 6 ozs to 1 gallon, and a solution of the hypochlorite of sodium Soluble phenyl is also excellent

Dr John Morris read a paper on

UNSANITARY AGENTS IN COMMON USE

This included trees, ice boxes, refrigerators and He pointed out the dangers of too many trees about a country house and enumerated the healthy and dangerous trees and their soils He spoke of the danger of preserving foods, etc., in ice boxes, and the advantages of using refrigerators through which there passed a current of cool, dry air, laden with the vapor of the chloride of sodium and permanganate of potash He referred to im pure drinking-water and to the fallacies in many filters

DR JOHN S CONRAD, in referring to Dr Rohe's paper, thought that quarantine should be under the control of the Government as a part of the U S Different degrees of strictness at Marine Service different ports did harm to commerce Crowding in quarantine sometimes spreads disease He felt doubt ful about the decided germ destroying power of all the remedies mentioned

DR JOHN MORRIS referred to three recent cases of small-pox in Baltimore and the efficiency of the city Board of Health in preventing the spread of this He did not think physicians should think disease

of taking pay for such noble work

DR WILLIAM B CANFIELD said he had arrived at the port of Baltimore from Europe in 1886, and, al though there was a case of small-pox on board, there was a delay of about fifteen minutes only at quaran A few weeks later small pox tine, and all landed broke out in a Western town, and it was traced to this steamer

DR GEORGE H ROHE could bring evidence of the efficacy of the disinfectants mentioned by him He thought householders objected to reporting cases of infectious diseases on account of the inconvenience and expense of disinfecting The Government should

do this

DR THOMAS S LATIMER read a paper on REFLEXES,

in which he referred to the fact that reflexes were rarely absent in health, and often absent or evagger ated in certain diseases He thought their study had grown in importance since the elaborate work of Lombard

DR John S Conrad read a paper entitled HALLUCINATION, AND ITS ALLIED STATES, in which he ably discussed hallucinations, delusions,

illusions in the sane and insane DR WILLIAM B CANFIELD read a paper on THE MICROSCOPICAL EXAMINATION OF URINARI SEDIMENT,

in which he dwelt more particularly upon blood, pus,

epithelium and casts in all their varieties, not omitting the details of the technique of searching for sediment

DR SAMUEL THEOBALD read a paper on

THE INFLUENCE WHICH THE DISCOVERY OF COCAINE HAS EXERTED UPON OPHTHALMIC SURGERY,

in which he referred to its advantage in cataract, squint, and other operations on the eye, and as rendering more bearable applications of strong astringents in granular lids

DR W R MONROE then read a paper on

ONYGEN AS A THERAPEUTIC AGENT

He reviewed the advantages of the use of oxygen in different diseases, and advocated its more general use by the regular profession

DR CHARLES G HILL read a paper on

ALCOHOL IN ITS RELATION TO INEBRIETY

After considering the number of drunkards in this country and the fact that 20 per cent of all cases of insanity could be traced to inebnety, he treated the subject of alcohol as a food and as a narcotic, and then discussed the different diseases caused by inebriety and the necessity of physicians paying more attention to guarding against this in their practice

DR. WHITFIELD WINSEY read a paper on Some Thoughts on Blood letting, in which he advocated the

revival of this mode of treatment

DR CHARLES O DONOVAN, JR, read a paper on A Case of Urethral Stricture with Severe and Unusual

DR HENRY SALZER read a paper on Dietetics in Febrile Conditions

DR J H BRANHAM one on Excision of the Larynx,

DR J H DEWOLF one on Urgent Needs of the Medical Profession

The following were elected

OFFICERS FOR 1888-89

President—Dr John Morris

Vice-Presidents-Dr J Edwin Michael, Dr Thos

B Evans

Recording Secretary-Dr G Lane Faneyhill Assistant Secretary—Dr Robert T Wilson Corresponding Secretary-Dr Jos T Smith Reporting Secretary—Dr William B Canfield Treasurer-Dr W F A Kemp

CHICAGO MEDICO-LEGAL SOCIETY Meeting of March 3, 1888

E J DOERING, M D, PRESIDENT

DR L L McARTHUR read a paper on

THE MEDICO LEGAL ASPECT OF POIT'S FRACTURE

(See p 553)

DR JOHN E OWENS I am glad this subject has ment

long splint to which the author of the paper has just The splint is technically Ducalled your attention puytren's splint, the leg being protected with a wedgeshaped piece, the thick portion of the wedge being below and reaching to a point just above the inner malleolus, serving for a fulcrum The portion of the splint which extends a few inches below the sole of the foot is not necessarily padded, it may be covered with some thin cotton, the foot being bound to the lowest portion by a bandage or adhesive plaster The plas ter of Paris treatment is one which I think has surprised more doctors in general practice and surgeons in their special practice of surgery than any other one splint that has been brought to bear upon Pott's fracture, or analogous injuries, like fracture of the fibula itself, without other complication In reference to the point that the inner malleolus is broken in Pott's fracture, I have seen as well-marked cases of deformity without any fracture whatever of this portion of the tibia as could possibly have occurred with such So I think that, while this is often a complication a complication of the fracture under discussion, it is not so in the majority of cases I remember that about twelve or fifteen years ago a case came to Rush College clinic with great deformity Prof Gunn said nothing before the patient that would create trouble between her and her medical attendant, but after she left the room he explained fully the defect in treatment which induced the result He suggested, in this case, cutting down upon the fibula, dividing it, and bringing the bones into their proper relation to The reason the deformity exists is because the broken fragments are closely approximated to the outer surface of the tibia, and having united there it is impossible, without some operation, to remedy it The operation was not performed at that time, but it is one that is well worth thinking of It is quite practical and I think would remedy some, at least, of the deformities The rupture of the internal lateral ligament is perhaps the worst feature in Pott's fracture, as union is usually defective

DR E W Andrews I differ from the last speaker I should advise every practitioner in one matter who handles surgical cases never to allow himself to diagnose a fracture by an inference from tenderness, or absence of fracture by absence of tenderness One who practices surgery and treats fractures must, for self-preservation, in every case make a positive diag-I should never treat a fracture where I could not obtain authority to anæsthetize the patient if I thought best, and make an examination so thorough as to satisfy myself whether the bone was broken

The uncertainty in terminology which the reader has referred to, in Pott's fracture, as having caused many physicians to employ a looseness of expression, runs through the books also Several of the standard works on surgery speak of Pott's fracture, with or without fracture of the inner malleolus

The author says the medico-legal aspect of the case will depend largely upon the physician's treatbeen brought before the Society So far as my own legal aspects of the case are quite different from the practice goes I never trust myself, in the treatment purely medical ones, and I should say they depend of a fracture of this kind, with any other than the upon about three things careful progrosis, good witnesses and careful records In the first place the medico legal aspects may depend upon the nature of senting this paper, it was necessary to dwell consid the prognosis which you have given to the patient, as this will largely influence him in his desire to bring the matter to trial It is often suggested to the paient that the doctor has been incompetent or negligent in his treatment when he is disappointed at the results of a fracture He has not obtained the same result which some friend has obtained Too often the doctor has not given an absolutely correct prognosis, masmuch as no one can promise a good result from any fracture The physician may expect a good result and may so promise to the patient, but if he is wise he will not do so, he will not fail to let the patient know in the case of any fracture the many possibilities of bad results that hang about the case-of lower fragment of the fibula to the tibia exists and non-union, of an anchylosis in putting the worst before the patient, not with the idea of winning any greater credit for ourselves, but Secondly, I think the as a matter of protection medico-legal aspect of the question will depend not alone upon the physician's skill in treatment, but upon his ability to summon witnesses when it comes Every physician who treats a case of fracture, easy or difficult, whether he thinks it is sure to fracture of the lower portion of the fibula, it is not so result well or not, should have his witnesses physicians, in handling such a serious matter as a fracture, do have witnesses They require assistants, and it is seldom any one attempts to set a fracture without having some one else by, but there are times when you are tempted to do so, and my advice is, never do it As Mr Punch said to those about to marry, "Don't" You will find that your ability to bring witnesses will deter lawyers from bringing suits against you, and the facilities they may have for finding out that you have not witnesses will enable them to push claims for blackmail In the third place I would say, be careful of your records Records diagnosis, the date of the occurrence and also the taken to prevent the entrance of micro organisms should include the details of your examination and names of witnesses present In this way you can served the letters you have received in regard to the fluid and destroy the micro-organisms thereon, and another physician, and, if you send letters, keep a must render thoroughly antiseptic all instruments copy of them. You may have received letters in used in the process of delivery. The lower part of used in the process of delivery. return stating that the patient arrived in a certain These and all similar papers should be tiseptic preserved, they may be worth thousands of dollars to inations you any time for about two years, after which I believe, in Illinois, the statute of limitations protects you

I do not know of anything DR CLARK GAPEN to add to this discussion unless it would be to reiterate the care with regard to which records should be I have noticed the moral influence of this upon an adversary time and again I came face to face with a case of that kind about three years ago, in which, when the fact was presented to our adversary that the most thorough and careful records of the case had been kept from the beginning, the entire suit was abandoned Bacon says that "Writing of writing acquires that habit of exactitude that is a ter from lesions of the genital tract, and that the mile warning, at least, to one's adversary warning, at least, to one's adversary

DR L L McArthur I am aware that, in pre erably upon the technical points of the case in question, and in doing so it naturally gave to the paper rather a more surgical than a legal aspect, but I trusted to the development of legal questions

The suggestion of Dr Andrews that the proper name be given to the fracture, and his emphasis of the fact that all simple fractures of the fibula are not to be included as Pott's fracture, I think a good one

I am glad to learn, simply as a matter of valuable information, that in the State of Illinois books and treatises on surgery and medicine are not matters of evidence

That the interosseous ligament which binds the I think we are justified that it is of about the dimensions Dr Hoadley men tioned, I, of course, am ready to admit, it is a self evident proposition But that the ligament situated at the point at which the fulcrum acts prevents rock ing of the lower fragment after fracture has occurred, with its attendant laceration, I decidedly object to I emphasize this point, as my attention was called to it by Dr Miculicz as a simple way of diagnosticating easy when the fracture is above the middle of fibula

DR J H ETHERIDGE read a paper on

THE MEDICO-LEGAL ASPECT OF UTTERANCES MADE IN MEDICAL SOCIETIES

A few months ago the retiring President of the Chi cago Gynecological Society delivered the customary address upon relinquishing his office to his successor In that address he advocated the extremest antiseptic treatment of parturient patients He took the ground that disasters after delivery arose from micro organisms gaining access to the uterine cavity and Hence the attending physi there producing larvæ cian must see to it that all possible measures are into the vagina and uterus of the lying in patient To this end he must wash his hands in an antiseptic thus avoid conveying them into the vagina He used in the process of delivery The lower part of the parturient canal must be rendered thoroughly an He must make few, if any, vaginal exam

At another meeting of the Chicago Gynecological Society the discussion of puerperal infection was The doctrine of Semmelweiss, first enun ciated in 1847, that puerperal fever is caused by a continued poison introduced into the genital tract from without, was accepted by some of the Fellows in toto carrier of the poison is the hand of the physician of nurse, or some of the appliances used by them in the course of the labor or soon afterwards, as obstetrical instruments, sponges, syringes, etc The pith of the discussion was enunciated by one speaker in the " The belief that every case of puerperal feet arises from the absorption of decomposing organic mai

nurse Provided the patient has been surrendered entirely to their control, and she becomes the subject of puerperal fever one or the other, or both, have directly infected her The atmosphere, as a bearer of infection, may be excluded in the majority of cases?

In response to these assertions I raised the question of the medico legal bearing of such teachings, expert witness in a case of alleged malpractice wherein the usual course of managing a case of labor had ob tained, and puerperal fever had killed the patient subsequently, and he were asked the question, "Do you consider the practitioner responsible for that woman's death?" what his reply would be? His reply was "If the physician's fingers were the only objects that had come in contact with the genital to act of the woman, and if he had not observed the precautions already men tioned, and if the atmosphere, as a bearer of infection, could be excluded, it would be consistent with the facts in the case that the physician infected the woman"

As a practical bearing of this subject I desire to state that I received a letter from a physician in an Eastern town, after the publication of the discussion in question, wherein he gave an instance of the medico-legal interest of this subject A man, whose wife had recently died of puerperal fever, took the initial steps of bringing a malpractice suit against the attending physician He was incited thereto by a conscienceless Ishmaelite in the local medical profession, who assured him that he could win his case on the strength of opinions and articles published in the current medical literature

DR JAMES H ETHERIDGE (oral continuation of You may go through the whole of therapentics and you will find that very little is absolutely settled in regard to the treatment of diseases An at peral fever, to establish in the range of fixed subjects proceed at once to the operation it is convenient to put on and to take off and again, where women have been taken care of by rosive solution, in order to prevent this danger of incompetent midwives or slovenly physicians, and contamination to the patient yet these women do not take on the puerperal infec-The most dreadful obstetrical operations have directions in regard to the management of the vagina

mendous weight of responsibility on the physician and terial influence, and in that way the patient escapes That is a convenient loophole We know that if we have an abrasion upon the finger, we are extremely careful to avoid any infection while dressing wounds, showing that in such emergencies we have a constant and persistent belief in the theory of infection

By the advocates of the Semmelweiss theory, the physician is directed, before attending to a lying-in and asked the speaker, if he were called upon as an patient, to wash his hands thoroughly with soap and a 2 per cent solution of carbolic acid, but he wipes his hands upon a towel that is in the room while they are exposed to the atmosphere of the room cording to the advocates of the germ theory the atmosphere is loaded with micro organisms, hence his cleanliness is not perfect. If he wish to be perfectly aseptic he should slide his hands up out of a bowl of carbolized water into the vagina Between the time of the antiseptic hand-washing and the time of making a vaginal examination as commonly carried out, there is an abundance of time to acquire three or four layers of micro organisms from the air on the obstetrician's hands Right here I would like to make a quotation from Dr Merriman While this subject was under discussion at a meeting of the Chicago Gynecological Society in July last, Dr Merriman made the following remarks, and I think they should be included in every discussion of the Semmelweiss theory of puerperal infection

"It strikes me that the vagina itself is not a very clean place in the majority of women, and that there is as much liability to sepsis from the vagina itself as from the physician's hand or finger I should very much dislike to take a sponge or anything that contained a portion of the fluid of a woman in labor and bring it in contact with a wound where I wanted to guard against sepsis and against poisoning I should be very much afraid to take any of that vaginal fluid tempt is being made at the present time, by believers and bring it in contact with the wound in an ovariin the micro-organism theory of causation of puer-otomy, or to make a vaginal examination and then that of puerperal infection, but it seems to me we passed my disinfected finger into the vagina and then, should be slow to accept this The Semmelweiss without any new disinfection, proceeded to an ovaritheory is subject to many fallacies, like an overcoat, otomy, I should expect trouble It strikes me we When a have more danger from an unclean vagina than from pattent gets puerperal fever, and we find there has the hands of the physician I do not imagine that been unclean attendance on her, we may come to in the majority of instances the finger of the physithe conclusion that she has died from infection, but clan is such a contaminating source of trouble as is we will find a great many cases where this explana- claimed If this is the case, if it is all brought in tion will hardly answer, cases that have been taken from the outside, we ought to insist that there shall care of in the most careful manner We may, with be no sheet used on the patient, no garment brought out using instruments or making a vaginal examina- about the bed, no old quilt or anything of that kind tion, determine the position of the child by external placed in contact with her that has not been just manipulation, and yet have puerperal fever follow washed and disinfected, and we should insist upon it There the Semmelweiss theory does not suit our con- that at the beginning of labor the vagina should be We all know of, or have seen, cases time thoroughly disinfected by being douched with a cor-

been done and yet the women go straight along with- previous to labor, to have it thoroughly antiseptisized out any rise of temperature. I know the allegation by chloride injections, and consequently the poor is made that not all instances of exposure to puer- vagina is douched. If after such an antiseptic inperal infection will work, simply because there is an jection we could take out the vagina and examine it, amount of so called physiological resistance to bac- I think we would find that not more than one-third

of its surface had been touched by this fluid know that with a bivalve or trivalve speculum we This was what was taught by Lister He regarded can hardly spread the vagina until we get a tense it as being absolutely indispensable that there must and shining appearance of its surface. How is it be no uncovering of the wound in any way lest the possible to bathe all of the vaginal surface by douch-microorganism got in there. So with iodoform, no ing in the ordinary way? How long will it be before body thought we could treat a wound without cov the Semmelweiss theory will be modified or before ering it with iodoform Five years ago the Pansian something better will take its place? We find all surgeons all used iodoform lavishly in surgical dressthe way through medicine and surgery that theories ings are taken up and abandoned istry will answer the purpose of illustration A few iodoform in surgical dressings. And so with antiyears ago it was a great point for chemists to be able septic precautions generally, the belief existed only to give a test for artificial bitters introduced into A gentleman named Allen, the author of "Allen's Comparative Analysis," said that all bitter principles of beer could be precipitated by using a certain preparation of lead, a solution of the subacetate He wrote upon this and it went out in the this way the carbolic acid must be kept constantly journals and books and was looked upon as author- in contact with the instruments itative, it was something tangible, it could be these operating rooms of an advanced gynecologist weighed, seen, felt, in this way they could test for was almost like going into a museum, it was very in aloes, quassia and the different bitter principles that teresting, and the scientific accuracy with which the original hop has failed to give in large quantities In those days Professor Allen was an authority on Suits were lost or won on his testi such subjects But this same gentleman subsequently abandoned that idea and said it was still possible to he does not believe in killing microorganisms with get a bitter taste, after using this test, and that he antiseptic drugs, all that he uses is cleanliness was unable to dissolve out, with the sub-acetate of The antiseptic man will say that this is antisepsis in Let us suppose that somebody another form had gone into the courts and brought suit against why the terrible, death dealing microorganisms so lead, all the bitters one of those great manufactures of malt liquors for adulterating his malt liquors in the old country, he drugs do not destroy this gentleman's patients? Another inwould have won without a question have a strong hold upon the world, is the subject of iodoform, it is claimed, is not a reliable destroyer of It was taught for a long time that fermentation fermentation was caused through the means of contact with oxygen it was unquestioningly taught in the medical books Oxygen was the only thing necessary to fermentation as being illustrative of the complete changes than The scientific world, for years, considered that medical opinions so often undergo in a few than the scientific world, for years, considered that medical opinions so often undergo in a few than the scientific world, for years, considered that medical opinions so often undergo in a few than the scientific world, for years, considered that medical opinions so often undergo in a few than the scientific world. chemical experiments, und found that oxygen from ing our consideration. It is so firmly believed in, that point settled tation, and that led to the question, is there the witness stand as an obstetrical expert, that a oxygen and oxygen? mentation went on still further, while he was working on his germ theory of disease, and he made, finally, an important discovery which revolutionized the theory, viz, it was not oxygen, but micromore, he demonstrated that we can get fermentation is so possible to have, a few years hence, another, without ox voen. In the range of surgery there are a great many theories accepted and abandoned from theory of the causation of puerperal fever, that I time to time Not many years ago the man who opened time to time Not many years ago the man who opened am astonished that anyone can utter such words the abdomen without having a spray of carbolic and the abdomen without having a spray of carbolic acid as were quoted early in my remarks, while the playing upon it. was guilty of criminal neglect. preparations made for a large spray to be thrown on introduce this subject. I have brought it before the the operator and the patient, it was looked upon as playing upon it, was guilty of criminal neglect the operator and the patient, it was looked upon as society, and it seems to me that until we have a sine and non in all surgical operations. In open have all been in hospitals where we have seen a sine qua non in all surgical operations. In open-theories and treatment of cases that are reliable and ing an abscess it was directed that it be covered with ing an abscess it was directed that it be covered with accurate, and beyond attack, the utterances I have gauze, a bistoury slipped under it and used in order gauze, a bistoury slipped under it and used in order | quoted from the Gynecological Society of Chicago,

We that the abscess might not be exposed to the air Wounds were so buried in this drug that An instance in chem-they were invisible To-day not one of them uses a few years ago that any one who opened the abdo men must undergo the most careful preparation of the hands, instruments should be washed in a 95 per cent solution of carbolic acid, then thrown into a 2 per cent solution during the operation, and in To go into one of everything was done was astonishing Now we go to the other extreme I know a gentleman who avers that he has done laparotomies for years, with out the slightest antiseptic drug precaution, because Admitted, but will he kindly explain constantly in the air and undestroyed by stinking

Only a short time ago, carbolic acid and iodolom were regarded as reliable bacteriacides germs—hence, it is going out of use as a germicide Carbolic acid, some one now claims, is so defective Liebig first brought this out, and in germicidal properties that microorganisms gambol sportively in its solutions These points are men tioned as being illustrative of the complete changes Here is the Semmelweiss theory now claim that at least one young man is willing to swear, on His investigation of fer- death from puerperal fever can be laid at that door of the attending physician! Let this theory depend on an alleged microorganism that no one has seen, excepting Pastuer, who thinks that he once saw it, and all other possible causes, which are certainly fully as rational are coughed down and ignored it

This closes what I have to say

brought to our doors kind I have quoted to-night will be laughed at tor was responsible for the woman's death rather than endorsed by the profession of this city

I did not expect to say a word DR C T PARKS I certainly am strongly an adupon this question vocate of the principle of not making positive assertions on any ground, certainly not on this ground of puerperal fever which always has been a source of annoyance to the profession, and never has been thoroughly understood or the cause of it explained there is no man who practices medicine, but does so attempt to have a clean patient, and a clean person as far as he can, true, there are some who do not expressed the true condition of affairs seem to go very far the care of patients in every way, and of themdays of acute peritonitis In that case the infection did not come from the doctor nor the nurse, and if of the patient's body

I have nothing special to DR D A K STEELE say on this subject, only to agree with what Professor, Parkes has said, that we should not be too hasty in putting forth dogmatic assertions in this matter am as firm a believer in the germ theory as any one, where it is difficult to trace the relation between cause and effect thought so much of as to-day, have never had a case get along without any septic infection But when we see a physician who is careless who did so

should be thoughtfully gone over before being given tious disease communicated to the lying-in woman Just as sure as we live, if we endorse by the physician, and yet I would be very careful in such utterances as these, we are going to have, in laying down an absolute law or making an absolute the next few years, a great many malpractice suits statement, I would hesitate to go into court in a In ten years, assertions of the case as clear as that and say absolutely that this docmay have been some factors other than that having a direct bearing on the case

I feel a little reluctant to speak DR I C HOAG on this subject, and yet feel that I ought to do so, as a portion of the discussion in the Chicago Gynecological Society was upon a paper which I wrote, but which I did not hear discussed I think such remarks as Dr Steele has made are worthy of all commenda-Personal experience is about the only thing I can tion, the point being this, that no matter what our depend upon I go upon the general principle that views may be, so far as public expression is given to them they should be free from dogmatism I entirely with a desire for his own good and the good of his concur, for the most part, in such expressions as Dr patient I do not think there is any man but will Earle has frequently given utterance to I think that Dr Etheridge, in his paper, has not by any means I think the Those who do not make an germ theory of disease is no longer a matter of theattempt to take care of the patient and themselves ory, but an established fact, in its principal relations, are blameless in the matter, I believe In my earl at least. If we are to find fault with hasty or illperience, I have seen cases of puerperal fever considered utterances on this subject we will presfollow, notwithstanding the fact that the utmost care ently be getting back to such conditions as obtained has been given by conscientious physicians who not alone in obstetrics, but the whole field of surgery, were thoroughly posted in antiseptic treatment, and eighteen years ago, the time when Lister made his wonderful discoveries To my mind the proof of the A few days ago a case of this kind hap- pudding is in the eating, those who advocate the pened in the practice of a gentleman who is well-germ theory of disease and follow out its logical known in this society, and who for several years has teachings are the safe surgeons and obstetricians evercised the greatest care in using antiseptic treat. That puerperal fever was one of the most destructive ment, even going so far as to use not only large of all diseases is proved by the Berlin Commission quantities of douches but as well large external who reported some years ago that the deaths from dressings. But notwithstanding all this care with puerperal fever exceeded those from cholera and reference to his patient, the nurse and himself, the small-pox combined. The most wonderful progress patient got puerperal fever and died inside of ten has been made by those who do believe in the germ theory of disease

In regard to the methods of prevention there is a it came at all, it was from the decomposing detritus difference of opinion, some in their zeal wish to use the most powerful antiseptic agents, and some do not believe that they are at all necessary My own opinion in the matter is that, for the most part, the vagina is to be regarded as practically in an aseptic condition That germs are present there there is no possible doubt, because they can be found at any and yet every once in a while cases come up that time by a little investigation, but that they are very puzzle us, cases such as referred to by Dr Parkes, infrequently the source of puerperal infection is quite as certain, witness the result of labor cases that are On the other hand, some of us left enturely to nature It has been proven again and who have practiced for years, before antiseptics were again that where women are left entirely alone they In the V₁of puerperal fever occur in our obstetrical practice, enna Hospital it has been often noticed, and in Semso that the Semmelweiss theory seems sometimes not melweiss' time, that patients who gave birth to their to explain these cases, they don't all seem to be due children on the street and were brought into the hosto infection from without-from the nurse or the doc- pital escaped infection and were often the only ones I remember of seeing, a few days ago, and slovenly, who will go from a case of erysipelas a reference to the statement of Credé that he did not to a lying in woman, and following that the woman believe in making vaginal examinations. At the time is taken with puerperal septicemia, the relation seems I wrote my paper in which I expressed myself as so direct that we say it lies at the door of the doctor favorable to limiting the practice of making vaginal Such a case has come under my observation during examinations, I had seen no reference to this Every the last month, where it could be traced to an infec- now and then an epidemic will break out, and the

source of infection can usually be traced to some careless student or physician, and I must say that in Vienna they trace most of these to Americans has happened that little epidemics have started up there directly traceable to examinations made by American physicians

So far as my own treatment of these cases goes, I regard the patient in an aseptic condition and only liable to develop the poison from poison brought to There is no doubt that we can her from without make out position by external palpation, but that per cent, and in Lombardy, one year, every woman this will entirely supersede the vaginal examination The matter of vaginal douches I do not believe has been carried to too great an extent, I believe the vagina before labor and during parturition is in an aseptic condition unless something is brought to methods that were tried in early years have been it from without, that following labor there is no special indication for douches

Dr Merriman's remarks to see such expressions as CredC's given the widest publication

There are so many things to be said on this subject that I scarcely know where to begin or stop, but I cannot find in my own mind too much praise for those men who have brought this matter prominently to the front, and while some of us may make statements that seem too dogmatic and would perhaps stand a little modification, yet I think such plans of treatment as suggested by these men are the safer ones to follow

DR C W EARLE I did not know that the honor had been assigned to me of being the chief advocate of the Semmelweiss doctrine However, it it is accredited to me I accept it and thank you for the compliment I am exceedingly sorry that Dr Etheridge has taken us back and given about the same argument that must have been given 45 years ago, when the illustrious Semmelweiss, in the face of ridicule and scorn advanced his new ideas regarding If it is true, as it was stated in the puerperal fever Gynecological Society some weeks ago, that certain remarks regarding the responsibility of doctors and nurses as carriers of contagion should not be made public, I hope for the credit of this Society that many of the remarks made against the Semmelweiss doctrine will never be given publicity We have been carried back-far back among the antiquities I suppose that Dr Etheridge refers to some remarks that were made in the course of which it was stated that in the majority of cases puerperal infection Now, it is not comes from some source without denied by those who urge this most strongly that there are occasional cases where it comes from within, at least it is impossible to explain some cases on any While a great deal has been done other hypothesis by those who advocate this doctrine to bring it almost to perfection, it is not claimed that perfection has been reached but that much has been done to prolong life and prevent deaths from puerperal dis-I am very sure that the time has come when yet fully received by a large majority of the profes- tiseptics, with a mortality of less than I per cent It just such discussions as we are now having are needed,

It is to influence those who do not believe. sion those who have never attended a case of labor with It clean hands, that it is necessary for us to take ex treme ground in this matter to prevent a dreadful mortality

In making examinations for life insurance, in one company I find over 17 per cent of the applicants whose mothers have died from puerperal fever In another company the mortality was over 12 percent In Semmelweiss' time the mortality was from 15 to 20 confined, died Is it strange that Semelweiss ev claimed that it was time that this murderous mortality was stopped? It has been stopped in a very large degree by antiseptic precautions, and while some found to be useless, other methods have come up to The matter of spraying, which I supercede them Dr Etheridge has expressed his admiration for have never used or ordered, but which I would use For my part, I should like if I believed the air particularly infected, has come in for its share of abuse Lister stated to me several months since when I said to him "Some of my coun trymen say that you have departed from your original ideas of antiseptics in that you discard the spray "You may say," he said, "if you honor me by men tioning my name in connection with antiseptic meth ods, that we have discarded nothing stopped doing certain things because we have found other methods which are better " There is nothing in Lister's practice or sayings which demonstrates that he has departed at all from his antiseptic methods It is by carrying out these methods that the mortality has been brought down from the terrible percentage it had several years ago I believe, and am consci entious in the belief, that if we could bring the entire medical profession up to a fair standard of antiseptic obstetrics we would do more to prolong life and save more people than are saved in all other departments of surgery and medicine Not many of us are called upon to do laparotomies and hip-joint amputations, but almost everybody must attend cases of labor, and I maintain that we can reduce a mortality which has exceeded 10 or 20 per cent down to 1 per cent by these methods I think it is quite probable that puerperal fever may come from an old suppurating point somewhere, which is lighted up afresh by the It is probably possible that process of parturition infection may come through the respiratory or diges tive passages, but in the majority of cases it is heterogenitic, and if everybody will go to cases of labor with clean hands, will employ clean nurses, and see that the atmosphere of the room is not tainted, he will bring the mortality down to almost nothing few months ago Lawson Tait visited the hospital of Tarnier, who exhibited to him a chart on which was recorded the mortality for many years past Are duction in deaths from 12 or 15 per cent to less than per cent was demonstrated By carrrying out antiseptic methods He divides the whole period into three stages The stage of maction, with a mortality of 15, 16, and 17 per cent, the stage of hygiene against infection and contagion, with a mortality of 4 to 6 per cent, the stage of an

is worth while to imitate it saved

In conclusion, I have only to add, that it appears to me that the time is coming when one will not have used ordinary care, skill or judgment in obstetrical practice unless the usual (to say the least) antiseptic methods have been employed

(To be concluded)

STATE MEDICINE

Action by Missouri State Medical Association regarding National Quarantine and State Sanitary Affairs

The special committee appointed to consider and report on the suggestions and recommendations of the President's Address at the recent meeting of the Missouri State Medical Association, reported through their chairman, Dr H C Dalton, of St Louis,

WHEREAS, The experience of the past has shown that existing means rehed upon for the protection of the people of the United States against the introduction of dangerous epidemic diseases from abroad are entirely inadequate to accomplish the desired object,

WHEREAS, It being highly desirable, in order to insure such protection, that the measures employed shall be uniformly and systematically applied, there-

Resolved, 1 That, in the opinion of this Association, external quarantine measures should be under the control and direction of Federal authority to afford the highest degree of protection to the people of this country

2 That this Association favor Congressional action looking to this end, as, in their judgment, there is

present urgency for such legislation

3 That copies of these resolutions be promptly forwarded by the Secretary to the Members and Senators of this State in Congress

Also the following were passed unanimously

Whereas, Recognizing the importance and value to the people of this State of a body clothed with signed to secure the sanitary welfare of the people have already of this State, therefore

Resolved, 1 That, reposing confidence in the wisstances, this Association approve the course and roneous and contrary to fact conduct of the Board, and pledge to its support in its work the influence and authority of this body

themselves to actively evert their influence in their of his letter respective localities, during the coming year, in favor

We cannot, probably, of legislative action in support of the Board, and to bring it to perfection in private practice, but we can enlighten their representatives in the General Ascome so near it that the lives of hundreds will be sembly regarding the wishes of the Association in this respect

> 3 That a special committee of three members on sanitary affairs be appointed by the President, with power to sit during the ensuing year, and advise with the Board in all matters concerning needed legislation for the more perfect protection of the public against disease

> Dr F J Lutz, of St Louis, Dr J E Tefft, of Springfield, and Dr B G Dysart, of Paris, were appointed members of the committee created in the last resolution

DOMESTIC CORRESPONDENCE

DR CUSHING AND THE MURDOCK LIQUID FOOD HOSPITAL

Dear Sir -Your correspondent, W, in his letter published in The Journal of April 21, has fallen the following resolutions, which were unanimously into certain errors concerning me which I desire to correct In regard to my correspondence with the Chairman of the Committee on Ethics and Discipline of the Massachusetts Medical Society, your correspondent absolutely perverts the meaning of the letter of the Secretary of that Committee, re-

cently published, and mentioned by W

Mr Murdock, in referring to my correspondence with the committee, copies of which he enclosed with his letter to the Boston Medical and Surgical Journal, naturally fell into the technical error of supposing that my letter, addressed to the Chairman of that Committee as such, and answered by him, had necessarily been before the Committee officially According to the aforesaid letter of the Secretary of the Committee, it appears that this was not the case, and that the letter of the Chairman of the Committee to me is to be considered as representing the opinions of himself, and of the other members of the Committee therein named, personally and unoffi-In either case the result was and is the same for me The correspondence was in 1886, when, before becoming surgeon of the Murdock Hospital, I took sound and prudent advice, and put on record with the proper authority a statement of my proposed relations and position in the hospital Neither official authority and provided with adequate finan- my friends nor myself have seen any reason to be cial means to enforce existing laws for the protection dissatisfied with my relations there since that time of the public against disease, the prevention of epi- I think that in common fairness you should publish demics, and the furtherance of all wise measures de- the correspondence in question, copies of which you

Although I do not know that the irrelevant asserdom, patnonsm and ability of the State Board of nals of Gynecology, of which I am editor, have any public interest, I may add that they are entirely er-

As your chatty correspondent does not publish 2 That the members of this Association pledge spiration from the animus legible between the lines

Since, probably by accident, the letter has been

sent you just before the annual meeting of the Association, at which I hold a position in one of the Sections, I would beg you to insert this also before Very respectfully, the meeting

E W Cushing

Boston, April 23, 1888

BOOK REVIEWS.

THE PRESCRIPTION, Therapeutically, Pharmaceutically, and Grammatically considered Ву Отто А Wali, MD, Ph G, Professor of Pharmacy in the Missouri Medical College, etc 8vo, pp 184 St Louis Aug Gast Bank Note and Litho Co,

Every one will agree with the author that a theoretical and practical knowledge of the construction of the prescription is of great importance to both physician and pharmacist Dr Wall seems to have gone more thoroughly into the subject than any previous In regard to weights and measures he is particularly full and explicit, 36 pages of the book being devoted to this subject

We cannot agree with the author, however, when he says "It is wrong, for instance, to write o 2 centigram, because many readers accustomed to using the metric system, would be apt to overlook the word centigram and read the above as 0 2 gram, which it would be if the figures stood alone without any designation The above should be written o ooz gram, or 2 milligrams," or when he says "Fractions of these values (centigrams and milligrams) should be evpressed in prescriptions in common fractions, and not in decimal fractions, thus ½ milligram, and not o 5 milligram, ¼ centigram, or 2½ milligram, and not o 25 centigram. In writing prescriptions to be filled by a druggist not entirely familiar with the decimal system it may be safer to write as the author suggests, but the other method is still correct. It is suggests, but the other method is still correct a serious question whether the world and literature would not be better off if common fractions were consigned to oblivion The mixing of common fractions in the metric system is about as bad as using dollars, shillings,kopeks,and pfennige in the same bill Germany tried to improve on the metric system and failed, the system, as it stands, is better than any other, and no so-called improvement that has been suggested has any particular ment As regards the mistaking of o 2 centigram for o 2 gram, it may be said that error is practically impossible if we write o 2 centig

But Dr Wall has written a good book on prescriptions, and one that we can highly recommend

MISCELLANEOUS.

VITAL STATISTICS IN ILLINOIS - The report of the meeting of the Illinois State Board of Health, held on April 19 and 20, For the first time since the collection of vital statistics was begun all the counties have made returns of births and deaths. These, which are for the year 1887, show a general improvement and increased fullness. A total of 32,164 deaths and a total of 62,337 births are reported for the whole State, being an increase of 2,762 death returns and 3,144 birth returns, as compared with the returns of the previous year While there is noted this general improvement, a few counties still show a laxity of interest and consequent comparative imperfection of

"THE AMERICAN ASSOCIATION OF OBSTETRICIANS AND GYNECOLOGISIS" was formed at Buffalo on April 19, it is said with a membership of 34. It will meet in Washington on Sep tember 18-20, 1888

DETLCTION OF DAMPNESS IN WALLS -J Ness'er say, in the Chemiker Zeitung, that a sheet of gelatine placed against a wall suspected of being damp will curl away from the wall if dampness exists

A SANITARY CONFERENCE AT SPRINGFIELD, ILL, will be held at an early date It will be attended by health authorities of cities, towns and villages of Illinois to promote local sani-

DR EDWARD G LORING, the well known ophthalmologist, died suddenly in New York City on Monday, April 23 He was about 51 years of age

ILLEGAL PRACTICE IN NEW JERSEY -The Esser County Medical Society has begun to take measures against the illegal practitioners of Newark, N J

BOARDS OF HEALTH IN OHIO -By a new law in Ohio a board of health is to be established in every city or village con taining more than 500 inhabitants

THE NFBRASKA STATE MEDICAL SOCIETY will meet in Lin coln early in June The exact date has not been fixed

THE MICHIGAN COLLEGE OF MEDICINE AND SURGERY IS a new college recently established in Detroit

THE IOWA STATE MEDICAL SOCIETY will meet at Iona City on May 15

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY FROM APRIL 21, 1888, TO APRIL 27, 1888

Lieut Col Jos C Baily, Asst Medical Purveyor, granted leave of absence for twenty days on surgeon's certificate of disabil ity, with permission to apply for an extension S O 92, A

rily, to Capt Henry Johnson, Medical Storekeeper S 0 92, A G O, April 21, 1888

Par 13, S O S9, A. G O, April 18, is revoked by par 1, S O 93, A G O, April 23, and Major Geo M Sternberg, Surgeon H S Army is directed to proceed to the Island of Surgeon U S Army, is directed to proceed to the Island of Cuba for the purpose named in the letter of the President ad dressed to the Secretary of War on the 17th inst Upon the completion of this duty will return to his proper station, and

submit his report to the President on or before June 25, 1888

Major R S Vickery, Surgeon, granted leave of absence for four
months, with permission to apply for an extension of two
months and to go beyond sea S O 95, A G O, April 25,
1888

The operation of par 17 S O 79 c s., A G O (so much thereof as relates to Capt Geo E Bushnell, Asst Surgeon U S Army), is suspended until May 1, 1888 S O 90, A

G O, April 19, 1888
First Lieut Leonard Wood, Asst Surgeon, granted one month's

leave of absence, with permission to apply for an extension of two months S O 41, Dept Ariz, April 18, 1888

First Lieut Chas L G Anderson, Asst Surgeon, granted one month's leave of absence from June 1, 1888 Resignation accepted by the President, to take effect July 1, 1888 S O 92, A G O, April 21, 1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U S NAVY, DURING THE WEEK ENDING APRIL 28 1888

Medical Inspector A S Oberly, granted six months' leave, with permission to visit Europe

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

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CHICAGO, MAY 12, 1888

No 19.

PRESIDENT'S ADDRESS

THE MISSION OF THE AMERICAN MEDICAL ASSOCIATION

Delivered at the Thirth ninth Annual Meeting of the Ameri can Medical Association, Cincinnati, Ohio, May 8 1888

BY A Y P GARNETT, M D, OF WASHINGTON D C

Gentlemen of the American Medical Association

Unlike my distinguished predecessor of the past year, who presented you with an able address replete with speculative interest and scientific research, I shall leave the abstruse problems of our science to be discussed and elaborated by the different Sections into which this Association has been divided with special reference to such themes and such discussions

In casting about for a subject more concrete in its nature and directly useful in its application, I have determined to submit for your consideration a few practical reflections upon the mission of the Amen can Medical Association

I am especially moved to select this subject at this time by the fact that at no period since the formation of the American Medical Association have its ene mies been so bold, so reckless, and so unscrupulous with the medical men of this country

The paternal relation held by this organization to the entire medical profession of the United States est and sincere love for our noble profession imposes upon it duties and responsibilities of the gravest character It stands out before the world as the chosen custodian of all that pertains to the preservation and advancement of professional interests, as well as to medical science per se, it is intrusted with the delicate and difficult task of elevating and maintaining the medical character of this country upon the highest moral and intellectual plane

Taking a retrospective view through the almost half century of its existence, we have no reason to be discouraged when we consider what has been accomplished, indeed, we have cause for congratuladue directly to its influence, important results which could only have been achieved by combined and cooperative effort The crystallizing at its very birth of the hitherto segregated elements of medical strength into one compact organization gave to it a power and authority recognized and felt by the en tire medical profession of this country

But while we may well feel gratified by a contemplation of the fruits of our labors in the past, it is obviously important that we should not be flattered into the belief that we have accomplished our mission, and permit ourselves to lapse into supine indifference with regard to the preeminently important object which yet remains to be worked out, I trust, through the instrumentality of this body I refer, gentlemen, to a radical and thorough reform in the present medical education of the United States-the subject which, at this moment, presses itself more urgently than all others upon our attention

Until this has been worked out we can never hope to see realized the grand designs of those wise and conservative men who, inspired by a true love for the profession of medicine and actuated by a high and honorable ambition for its success and commanding influence in this country, conceived and perfected the machinery which they considered adequate to the duty of achieving such a noble purpose

Have we, gentlemen, who followed them, so controlled and directed this machinery as to fulfill their anticipations? Have we as yet fully tested its capacity to meet such expectations? Have we exhausted with unavailing results all the means at our command? To me it seems not

In directing your attention to this apparent derein their efforts to destroy its influence and power liction on the part of this Association, I trust that I may not be regarded as a sensorious pessimist, or that I am actuated by any other than the most earn-

> It is but natural that those of us who have at heart the true interests of the medical profession, and who desire to encourage such progress and effect such reforms as must permeate and influence each section of our country, should make every endeavor to elevate our system of medical education to a standard equal in dignity and attainment to that which obtains in Europe, and hopefully look to this great representative body as the only central, dominating power through which such reforms are to be accomplished and perfected

Our annual meetings must not be regarded solely tion as we recognize the many evidences of progress for the purpose of considering the science of medicine either in its theoretical or practical aspect and supplemented by the pleasures of social intercourse While we have ample cause to be gratified with the rapid progress made by some departments of medicine in this country within the last decade under the direction and stimulus of this Association, we are still confronted by the fact that very little has been effected in the direction of a general reform in the medical do the records of the American Medical Association

We all know that this subject of medical education and medical license has been an almost endless theme for discussion, cocval, indeed, with the establishment of medical schools in America, and more particularly has it been earnestly and ably considered since the organization of this Association, yet the question still presents itself, What can the American Medical Association do to further raise and promote a higher standard of medical education in the United States, to curtail the number of medical schools, and thereby gradually restrict to a conservative limit the annual hosts of graduates turned loose upon the public by those institutions? It will be borne in mind that in order to effect these desirable ends the initial step must be taken by this body in some mandatory form—experience has demonstrated that separate State societies and individual college regulations looking to such reformation have so far proved conspicuously futile For a long period all measures brought before this Association having for their object an interference with or material modification of the systems pursued by the medical colleges were met by a determined and successful opposition on the part of those members who represented such institutions

So manifest did it become that no important change could ever be effected in this direction while these schools were permitted to be represented as such in this body by their own officers that an amend ment to the constitution was adopted abolishing this feature of representation in order, as it was hoped, that the proceedings of the Association might not be trammeled or embarrassed by the misguided efforts of such delegates

Whilst the purpose and intent of this move was, as already stated, to free the Association from the predominating power of the schools and permit it to legislate in a fair, unprejudiced, and conservative spirit upon this important question, it has so far unquestionably failed to do so. It occurs to me that an explanation of this may be found in the fact that a large proportion of those who now attend our annual meetings are directly or indirectly connected with medical institutions, and no doubt are to a large extent, unconsciously, perhaps, influenced in their conduct on this floor by the supposed interest of their respective schools

Permit me to disclaim here any purpose or desire to impugn the motives or loyalty to our profession of these distinguished representatives of our medical colleges. From my standpoint alone do I offer this hypothetical criticism upon their conduct in this regard, and while I cheerfully concede to them the honor and merit of having largely participated in laying the foundation of this Association, and having subsequently sustained its character, influence, and power as an agent for the general welfare of the medical profession in the United States, I can not permit myself to ignore the fact that they have not, collectively and unitedly, cooperated and wielded the power which they indisputably possess to advance and elevate our standard of medical education. Nor

do the records of the American Medical Association at any period of its past history show that unselfish and honest effort in this direction on the part of those who control and direct the educational movements of our profession which can either challenge our admiration or command our unqualified approval

While it can not be denied that there are medical colleges in this country unsurpassed by those of Europe in their essential appointments and facilities for the education of medical students, the equally undeniable fact remains that we fall far behind them in the systems of study pursued

This is more unfortunate and baneful when we consider the radical difference in point of education between the mass of students in this country and those of Europe Contrasting the two from this standpoint, we find, as a rule, when the European student aspires to become a professional man, he recognizes the fact that in order to pass the ordeal of a college course successfully he must have the basis of a preliminary education, in most cases including a classical one He is confronted at the very threshold by the rigid requirements of a fixed collegiate standard He knows and appreciates that unless he possesses some educational capital or mental training to build upon he can not hope to master the complex and difficult work before him

On the contrary in this country the multitude of medical schools scattered throughout the land, to be found in almost every town and village, offening in ducements to the uneducated as well as the educated by low fees and short terms of study to enter the profession, added to the almost universal desire pre vailing among the working classes to become doctors and lawyers, have not failed to work incalculable mischief The half educated artisan, ambitious of becoming a professional man, meeting with no obsta cle in the way of a preliminary education, throws aside his implements of trade and walks into the halls of some medical school to emerge therefrom after two short courses of lectures a full-fledged M D, h censed to go forth as the accredited representative of a so called learned profession This, gentlemen, is no exaggerated picture resting alone upon some 10lated or exceptional instance, but a practical fact of frequent occurrence, and one for which the schools are directly responsible, since they alone have the power to correct this evil I am not unmindful of the many labored and specious arguments which have been advanced in defense of the schools, and the efforts made to relieve them of all censure in this re gard by placing the responsibility on other shoulder We have been reminded of the fact that all great resolu tions move slowly, that we must not expect to accom plish radical reforms in our system of medical educa tion in a few years, we must patiently wait for the seeds of reform, which, having been sown in rich soil will in good time and season be sure to spring up, tion, State and county societies have been organized upon a firm basis, engaged in active and efficient work, and destined to prove the direct instruments

We have waited, and nearly half a century has rolled by in anxious expectation of seeing these educational centers take the initiative in pushing forward this great object, an object which in reality dominated all other considerations at the very birth of this Association Have those expectations been realized? On the contrary, with a few notable exceptions, they have turned a deaf ear to the repeated suggestions and earnest demands of this body, and stubbornly pur sued that course which they selfishly believed would secure to them the largest patronage through the shortest route from the hall of the matriculate to the We are further told that platform of the licentiate colleges should not be held responsible for graduating illiterate and incompetent students. It was not reasonable to suppose that the faculties of those institutions would ignore or disregard the certificates and letters of recommendation presented by students applying to enter a college, when such letters were furnished by preceptors who were, perhaps, personal friends of some one or more of the professors determine the student's fitness to receive a diploma and authorize him to present himself to the public as States Commissioner of Education a competent person to practice medicine rests entirely with those who issue such diplomas Can they so far disregard their duty to the profession and to the public as to accept the partial judgments or recommendations of irresponsible or prejudiced preceptors?

Almost all institutions of learning that possess the authority to grant licenses require preliminary exam mations to determine the qualifications of students before accepting them as such, notably the two national academies of the United States-the Army Why should not the medical schools, and Navy imperatively demands it, also require such examinanons? The catalogues of many colleges state that certificates of educational acquirements are required of all students before matriculating, but I have the strongest grounds for believing that this rule is far more honored in the breach than in the observance

Again, it has been alleged, by way of explanation for the recognized and unfortunate educational deficiences pervading many medical communities, that it proceeds from a lack of study on the part of the general practitioners, especially those residing in rural districts, who find more congenial occupation in disof medical works, that the schools should not be held to this apology by asking if such members of the pro academic and medical, that would stand by them only 38 both sexes, and I everbody of suitable age through this rust of negligence and decay of interest, than to commence in ignorance, progress in ignor- of instruction prevailing. One, the older, requires a

this country from the responsibility of the obvious defects in our system of medical education, and the odium of a failure by them to reform that system must, like the shirt of Nessus, ever cling to them

That the professions of law and medicine are overcrowded in this country, no man of common observa-The ratio of professional men in tion will deny the United States to the population exceeds that of any other country in the civilized world, so that any legitimate means of checking this evil which can be devised and carried into practical effect must be hailed by the medical world, as well as the general public, as an inestimable boon The statistics recently published by the Illinois State Board of Health tending to show the annual number of graduates in medicine within the last three years, and the conclusions based upon those statistics published by the medical journals of the country, I have reason to believe, are not entirely accurate. In support of this opinion and the views expressed in the foregoing part of this address I shall take the liberty of directdoes not seem to have occurred to the authors of ing your attention to a résumé of statistics bearing such arguments that the final judgment which was to upon this subject, furnished me through the kindness and courtesy of Hon N H R Dawson, United

> These will, no doubt, exhibit in a more forcible and impressive manner to your minds the especial subject under consideration than any individual argument, however logical or conclusive, that could be presented, particularly when it is remembered that they are prepared under the immediate authority and direction of the United States Government, having at its command far greater resources than any one State or county could employ

"Total number of medical schools in the United States, 126, of these 95 are regular, 11 are 'eclectic,' whose vast and comprehensive field of study more 13 are 'homeopathic,' 3 are 'physio-medical,' and 4 are too indefinite for accurate description

> "Of these, 2 regular, 1 'eclectic,' 1 'physio medi cal,' and 4 'indefinite' schools are not recognized by this Bureau, by State boards of health, by medical licensing boards, etc Four other schools have been established or organized so recently that they reported no students or graduates for the year 1885-86 There remain 89 regular, 10 'eclectic,' 13 'homeopathic,' and 2 'physio-medical' schools from which statistics were obtained and tabulated in another part of that letter

"Proceeding thereto, the list of medical schools on cussing politics, hunting, and farming than in the study pages 5-11 showed that 63 regular, 2 'eclectic' and 4 'homeopathic' schools admitted male students only, responsible for this condition of things I would reply that I 'homeopathic' and 4 regular schools admitted female students only, that 19 regular, 8 eclectic, fession are, by reason of their surroundings, to lapse 8 'homeopathic,' and 2 physio medical' schools adinto this state of indifference and ignorance, is it not mitted both male and female students, and that 3 the more important that they should, before comple-other schools, all regular, admitted colored pupils, ting a collegiate course and receiving a diploma, be one of these admitting both sexes and both races required to lav a solid foundation of education, both As a whole, 70 schools admitted males only, 5 women

"Studying this table further, we find two methods ance, and, like unto the man to wnom only one talent student to attend substantially the same course of was given, go and hide that in the earth? No, gen- lectures twice before his examination for a degree, tlemen, there is no escape for the medical schools of the other requires him to attend three distinct and

graded courses of lectures before his final examinar course of lectures, 86 require 2 courses, these 87 part of the success of well-educated homeopathic I group together as following the older, or repetition method, 26 schools require 3 graded courses, and 1 school i such courses, these 27 I group together as prescribing the newer, or graded, method, with the following result as regards numbers

Graded method			Repetition method			All			
Designations	Schools	Students	Graduates	Schools	Students	Graduates	Schools	Stadents	Graduates
Regular Eclectic Homeopathic Physio medical	21 1 5 0		383 14 104 0	9 8 2	7,752 578 748 47	187	89 10 13	9,591 602 1,062 47	3,209 20 455 28
an designations	27	2,177	501	87	9 125	3,392	114	11,302	3,893

tabular summary is not introduced in order s it, but in order to furnish a basis of conumbers, upon which the percentage numbers given below may be verified

"The percentages are calculated so as to show for each kind of medical school the proportion preferring each of the two methods I give first those relating to the 'graded' method

Designations	Percentage of—				
~ ~	Schools	Students	Graduates		
"Home pathic Regular - Eclectic Physio medical	38 5 23 6 10 0	29 6 19 2 4 0	II 9		
All designations	23 7	19 3	12 9		

"Next those percentages relating to the 'repetition' method

	Percentage of				
Designations	Schools	Students	Graduates		
Eclectic Regular Homeopathic	90 0 76 4 61 5	96 0 80 8 70 4	93 0 88 r 77 l		
All designations	76 3	80 7	87 1		

"The foregoing percentages are instructive in two We may compare the proportion designated 'regular' with the others in its own group, or with the proportion similarly named in the other group

"The percentages of 'regular' schools, students, and graduates following the 'graded' method of instruction was less than the corresponding homeopathic percentages in that group This would indicate that the regular schools, as a whole were less that in many instances the catalogues of colleges do careful in the method of their instruction, so far as not correctly represent the practical operations of

the grading of studies is concerned Of the 111 reporting schools, 1 requires only of less care in other ways? Does it explain any physicians in modern times? I do not draw this as a conclusion, but submit it as a query

"Upon comparing the percentages designated 'regular' in both groups, we see that those in the 'repetition' group exceed those in the 'graded' group 52 8 as to schools,

61 6 as to students, 76 2 as to graduates

"This indicates that regular schools following the older, two course, or 'repetition' method admit students more readily, and confer degrees more copi ously, than regular schools prescribing 'graded' courses of instruction Do the schools in the 'repe tition' group admit and graduate more readily because they have, as a whole, a lower ideal? I do not assert this I ask the question

"Returning now to the tabular summary on page 2 of this letter, I extract and summarize yet further the statistics relating to 'regular' medical education, and give percentages of graduates to students in each group, as follows

Method of Instruction	Number of students	Number of graduates	Per cent of grad uates to students
21 'graded' colleges 68 "repetition" colleges	1,839 7,752	383 2,826	20 B 36 4
89 All methods	9,591	3,209	34 5

"This indicates a possibility that the requirements for graduation from the 21 colleges prescribing a graded course are more severe than those of the larger group If the per cent of graduates from the 'repetition' method colleges had been 208 instead of 36 4, they would have graduated only 1,612, instead of 2,826 On the other hand, if the 'graded' method colleges had graduated as many in proportion, 36 4 per cent, as the others, they would have granted diplomas to 669, instead of 383 these schools had graduated 20 8 per cent of their students, those graduates would have numbered 1,995, if they had graduated 345 per cent, the They actugraduates would have numbered 3,495 ally graduated 3,209, or 34 5 per cent"

For the present year 1888, upon the basis of a population in the United States of 61,420,000, the ratio of practitioners of medicine to the population will average about 1 to every 580 In the city of Washington we have I practitioner to about every

485 inhabitants This very carefully prepared analysis of the niedical schools of the United States, it will be observed, like that contained in the statistical report of the Illinois State Board of Health, rests largely upon the cor rectness of the catalogues put forth by these schools, and, though possessing some additional sources of information, can not be regarded as conclusively accurate, for the reason, as I have elsewhere stated,

those institutions lates during the past three years of 31/3 per annum, or 10 for three years—making a be abolished total of 113% matriculates per annum divided be age, sex, color, or previous condition With these figures before us, gentlemen, no fears, it seems to me, always be found equal to the demand Even as far back as the days of Addison, more than a hundred years ago, when the facilities for obtaining a medical education must have been greatly restricted as com pared with the present time, you will find the follow-"Spectator" in speaking of the learned professions He says

of physic, we shall find a most formidable body of men, the sight of them is enough to make a man serious, for we may lay it down as a maxim that people This body of men in our own country may be described like the British army in Cæsar's timesome of them slay in chariots and some on foot"

If they are to continue to augment, through the reckless conduct of the colleges in this country, in the same ratio as they have done in the past ten years, let us at least endeavor to place them beyond the reproach and ridicule which at present so often attach to the name of doctor

Entertaining the views above expressed, based in part upon these tabulated expositions, and inspired direction of educational reform, I respectfully submit for your consideration the following suggestions

Proposition 1 That a standing committee, to be called a committee on legislation, be appointed for each State, Territory, and the District of Columbia, in good standing, three of whom shall have no regular profession official connection with any medical school or colpossible the following instructions

duties may require, for the purpose of using all honof medical schools in the United States, and a congraduates, that as a practical measure to this end responsible position to which you have elevated me they urge the passage of a law requiring that in the future granting of charters for creating medical to the recent successful meeting of the Ninth Interschools, there shall be a clause in every such charter, requiring that all schools or colleges thus created capital of the United States in September last

In the city of Washington, with granting a diploma to any student thereof, and that a population of 180,000 inhabitants, we have four no student shall be admitted to matriculate who has medical schools, with the following list of matricu-Inot passed a satisfactory examination, both oral and One school of written, in the ordinary branches of academic 412/3 per annum, or 125 for the three years, one study, and, further, that any college failing to show school of 30 per annum or 90 for three years, one of a greater number than fifty matriculates annually for 21 3/3 per annum, or 65 for three years, one school three consecutive years shall forfeit its charter and

Second That they use all diligent effort to se tween four schools Three of these require a three cure an ordinance creating in each State and Terriyears' course of study, one requires that the student tory where no such board at present exists, and the must belong to the genus homo, without regard to District of Columbia, a board of medical examiners, which shall have no connection with any medical school, and which shall be required to examine all need be entertained of limiting to too small a number applicants for license to practice medicine in their the professional men in this country, the supply will respective States, Territories, and the District of Columbia, and that any person who may be detected in practicing any branch of the healing art without a license granted by said board shall be subject to such penalties as the law may provide this committee may be authorized by statute to seing language used by that celebrated author of the lect and nominate to the governors of the States, Territories, and the District of Columbia seven competent and learned members of the medical profession to "If, in the third place, we look into the profession | constitute said board of examiners, who shall have the exclusive power to issue licenses to practice the art and science of medicine and surgery

Third That the chairman of said committees of when a nation abounds in physicians it grows thin in five be required to submit at each annual meeting of this association a report embracing a full statement of what has been accomplished by each

Proposition 2 That the faculties of the several medical schools within the limits of the United States be once more urgently requested to call a convention at some central point for the purpose of consultation, and adopting some general and uniform system of medical education more comprehensive and rigid in its requirements, and more in accord with the spirit of the age and the advanced progress of medical science, suggesting a four years' term of by the hope of initiating some practical move in the study, the requirement of a preliminary education, including some knowledge of the classics

That any college or school which shall refuse to enter into such an arrangement as may be decided upon by said convention shall be excluded from all connection with the American Medical Association, to consist of five members of the medical profession and its alumni not recognized as members of the

I am aware that these suggestions embrace some lege, whose duty it shall be to carry out as far as very radical and seemingly impracticable changes, but as they point, in my judgment, to the right direc-First That each one of said committees, or a tion, I trust that they may not prove to be seeds majority thereof, shall attend the sessions of their sown upon barren soil Be that as it may, I shall at respective Legislatures, or from time to time as their least enjoy the consciousness of having honestly, conscientiously, and fearlessly met the great and orable means looking to the reduction of the number pressing issue of the day within the domain of our profession, and of having executed, to the best of sequent diminution in the annual number of medical my ability, the most important duty imposed by the

It is with no little satisfaction that I can here refer national Medical Congress which took place at the shall demand a full term of four years' study before To my lamented and distinguished predecessor as

president of this Association, the late Dr Austin ness, and justly proud of her achievements in all Fint, belongs the credit of having suggested in his address at the meeting of the Association in 1884, that this congress of eminent scientists, embracing eminent in science We, her honored guests, offer distinguished and renowned representatives of the medical profession from almost every civilized nation of the world, should, through the authority of the American Medical Association, and in the name of the entire medical profession of this country, be invited to hold its ninth meeting in the United States, and that a committee, appointed by this body, to attend the eighth meeting of the Congress at Copenhagen, be charged with the duty of conveying to that meeting this invitation

Through the personal influence, ability, and diplomatic tact displayed by the judicious gentlemen intrusted with this delicate mission, the invitation was gracefully accepted by our foreign brethren, and Washington City selected as the place of meeting for the Ninth International Congress It was a source | jectors of this undertaking and justly responsible for of deep regret to those upon whom the duty de volved of arranging the preliminary work for this important gathering, as well as to the profession at large in this country and abroad, that so many of those who were identified with the movement at its jamin Rush inception should have subsequently disassociated philosopher, and a physician, stands out as much themselves from all connection with the Congress, and thereby limited, in some degree, its influence, importance, and scientific value

Notwithstanding this defection, however, we have abundant reason to congratulate the medical profession of the United States, and especially the members of this Association, upon the gratifying outcome of this fraternal reunion, and while contemplating with pride the fruits of our labors, we entertain no misgiving, now that a large portion of the scientific work has been submitted to the verdict of the medical world, as to what that verdict will be -equal if not superior, to the work of any preceding Medical Congress

I should be recreant to the dictates of my individual feeling, as well as to that which, I doubt not, animates this entire assembly, were I to omit here any allusion to the particular occasion which at this loved his whole country for his country's sake, who moment awakens such widespread interest throughout this magnificent city It is meet that we should loved mankind through the divine attributes of his avail ourselves of the opportunity to give expression to our sympathy and participate in the common rejoicing which greets this centennial year of her exist part of this body appropriate, when it is remembered tion that just one hundred years ago this city of Cincinnati was founded and named by a member of our own profession, Dr Arthur St Clair, a native of This spot, occupied by a fort in 1788, was selected this country—to-day more powerful, more self by him as the seat of government, which he named reliant, more progressive, and stronger in the affect of the country o Scotland, and first Territorial governor of Ohio Cincinnati, after the society of Cincinnatus, of which he was a prominent member From this humble beginning, in the comparatively brief period of one its seven hills, and claiming to be the mistress of the long so subordinate the discrepancies of individual world, she now majestically reposes upon her many judgment and impulses of resentment to the fraternal hills the queen of the West—conscious of her great-lagencies of a common calling, and the pacific de-

that constitutes a progressive and perfected civiliza tion, esthetic in art, potential in physics, prethe tribute of our admiration and our praise

At this point, gentlemen, I deem it my duty to revert to a subject which has occasioned me a profound feeling of regret, and which, I trust, may awaken in your minds a responsive sentiment. I refer to the mortifying position in which the Rush monument committee has been placed by the apparent lack of interest and liberality on the part of the medical pro fession of this country When we are reminded of the fact that this enterprise was inaugurated under the auspices of this Association, and the committee, authorized to raise, by voluntary subscription, a sufficient fund to proceed with the work, derived its power to do so from this body, it will be seen that we stand committed before the world as the proits execution

I shall make here no appeal upon the merits of the case, nor do I propose to attempt a euology upon o eminent a citizen and distinguished physician as Ben The record of his life as a patriot, a a part of the history of his country as that of Wash ington himself

We owe it, then, to ourselves to recognize the fact that in honoring the memory of such a repre sentative of the medical profession we do honor to Let me exhort you, therefore, to avert ourselves this impending shadow of reproach which now hovers over the medical men of our land

All over the capital of our country we find statues erected in memory of statesmen, warriors, philoso phers, and patriots, nor has the ever-active and ignoble sentiment of sectional prejudice failed to find there its expression in monumental brass and intended to perpetuate the bitter memories of a fratricidal strife Let us, as members of a liberal and humane profession, set the example of seeking a higher moral plane to do honor to the man who loved science for the sake of science, and who nature

In concluding this address, I desire to offer to you, gentlemen, my congratulations upon the proud Especially is such a manifestation on the and enduring position now occupied by this Associa Resting, as it does, upon the solid foundation of a moral, intellectual, and scientific basis, it has steadily from its birth gained in strength and influ ence and won for itself the support and approval of our brethren throughout the length and breadth of tion of its members than at any former period of its Let us indulge the hope that those of our earlier friends whose allegiance and interests existence have been temporarily alienated from us may ere

once more uniting with us in our efforts to maintain of this wise, conservative, and philanthropic organi-ZHIOD

THE PRESIDENT'S ADDRESS TO THE MEDICAL EDITORS' ASSOCIATION, 1888

Delivered at the Annual Meeting in May, 1888, BY WILLIAM PORTER, M D, OF ST LOUIS

Brother Editors

It was your good pleasure to elect me your President for the year that closes with this session has been a year of anxiety and of work, a campaign year, and a year of achievement I thank you all the support which accompanied that choice, yet I have greater satisfaction in remembering what you have done in 1887 to strengthen our National Asso-Congress

Through the success which has crowned both of these enterprises, a new dignity has come to the profession of our country, and you, gentlemen, as watchful guardians of what is rightfully yours, will see

have so richly earned it

Two things have been clearly demonstrated during the year that has gone 1st, the power of the medical press, which has so large a part in this Associa 2d, the value of unity

It was, to a large extent, through the united efforts of the editors of medical journals here represented, that a once desperate possibility became a glorious certainty A heavy responsibility was lifted from your shoulders as in last September the world's representatives grasped your hands in hearty approval

Pleasant as is the retrospect, we must not yet rest upon our oars, satisfied with the progress already made The current of life bears us not onward but backward, unless continued effort is put forth

In our land with its ever new development, in our profession with its continued advance, there is no rest for the medical editor, no point of complete atpast, there is more to do in the future have had need of each other in the last decade, we have greater necessity for union in years to come

Fully impressed with our strength and our requirements, I have desired to depart from our usual cus tom to-night and to discuss with you plans for a stronger organization and questions of importance

in our work

It may be asked, why have we need of a well organized association? The clouds of '87 have rolled by and the peace of '88 is upon us, all is well.

Gentlemen, let me remind you that the God who our day means rivalry

I would not attempt to detract from the honor and gers

mands of a common science, as to feel justified in dignity to which many of our great institutions in the East have attained, nor would I undervalue the untold and perpetuate the power, influence, and usefulness influence of some of the few medical journals not represented here We are proud of their work, but we must not forget our part in life's struggle While the long years of advantage have given to the East the older and stronger universities, the new wealth and energy of the West is giving large promise of a most substantial harvest

Do not understand me that I would urge strife or sectional jealousy Not for a moment would I hinder the dove which returns to the grand old ark of our National Society But though science is cosmopolitan, personal interests may be local I love my city better than some other city I esteem my true and tried associates better than those of whom I appreciate all honest workers I know but little in medical journalism, but I especially want to see for the honor which your choice conferred, and for the success of those interests here represented This success we can accomplish if we are willing to labor with honest united effort

It is one thing, however, to work for individual ciation and to aid in the affairs of the last Medical advancement, it is another, yet not necessarily antagonistic, to do all possible for the largest general While it is right that men should form local attachments, and have preference for place and person, it is wrong if in so doing they ignore others who would exercise the same right, and deny that equalthat the prestige does not depart from those who lity which in this land is the birthright of every member of our glorious guild

> I am not an alarmist I have abiding confidence in the ability of this Association and of the great National body with which we are so closely related, to go onward, to preserve their identity and usefulness, and withal to represent the profession of the

United States

But I fully understand that this position can only be maintained by resolving to stand firm, determined that those interests which are the inheritance of each of us, shall not be narrowed by sectional lines, nor be endangered by personal jealousies — I believe in peace and harmony, but I prefer that peace which is made secure by strength, and that harmony the key-note of which is well secured right to meet those with whom we have differed should they so desire, but it may be that in advancing half way we should do so in solid column

The honest wish of every true American physician While there has been much to do in the is that we may have a united profession and that the While we sharp dividing lines so recently drawn may be oblit-Let me urge upon you that, in attempting erated to reach this end, we must not permit a process of absorption to go on which shall reduce one part of our land to the condition of an outlying province, controlled by and tributary to another part

Rather let us seek to cement the union of professional brotherhood which should everywhere exist, by being true to our own sense of right honor the proffer of fellowship by extending the hand of self-respect filled with the fruits of patient labor

If we would grow stronger and more worthy of the made men, made them ambitious, and ambition in trust which is reposed in us by the students of current medical literature, we must guard against two dan-The first is dissension in our own ranks, the second, attacks from without I do not fear the second, if we are careful to avoid the first

There never was a time when a full understanding with each other and strong, true, aggressive action has been more needed than it is now. If we would prevent this goodly kingdom of ours from becoming a mere dependency, we must stand shoulder to The Star of the East has reached its zenith, and "Westward the star of empire takes its way" The light of the former is bright and steady, but the imperial star of modern progress shines for Its brilliant rays reach every corner of our land. and its course is not stayed by mountain or river

But words are vain if they do not call forth action I would strengthen your faith in your mission, but "faith without works is dead" In this assembly is power, I would arouse it There is enterprise, let | needs it it be stimulated We have harmony of thought and unity of purpose, let us come closer together in a more definite organization for more effective work

A strong Association can accomplish much where individual effort may be futile There are many questions which demand attention The further advancement of our State and National Associations, legal control of quackery, the International copyright, the questions proposed for discussion to-night, the upholding of our best schools and journals, and the exposure of poor ones, these are some of the matters of vital importance which call for harmonious and well organized action by the medical press of the land

Do I overestimate the need of organization? Remember that in no other nation in the world are there so many medical journals, so many medical editors, ready to engage in any right enterprise for professional justice and advancement, and yet I do good not hesitate to say that in no other country is there twelve years ago, when she began to suffer in many so much needless friction, so much misunderstanding of men and their motives

of personal knowledge of each other, of a lack of a needed conference and plan?

of thought or speech, and only urge that which will the left hypochondrium, but extending both up and more firmly unite us, and make more potent such action as we can together endorse need, and let us have it

It has been charged that this Association is organ 12ed and conducted for purposes other than those of pure journalism

I need not not use this time and place to refute this slander, but it gives me the opportunity of asserting that if to band together to promote those inter to expose fraud in and out of the profession in the left was detected. I supposed it the remnant of the North or South, to insist that he who is worthy shall be esteemed whether he comes from the far West or the distant East, to build up our local and State Societies, to further the cause of our National Associaquestions before the profession be a conspiracy, then a dollar, tender on pressure, and nearly correspondare we to-night conspirators of the deepest dye

stronger and larger, till it shall include all who have plained of was vaguely placed hereabouts

the oath of editorial knighthood upon their lips and the kingly purpose of right in their hearts

In you, my seniors in years and experience, have I all confidence that the endurance and judgment which have enabled you to guide others through the wilderness of ignorance in the early stage of our professional history, will not desert you now, when keen adventurers and plausible dogmas are enticing the unwary at every turn

Upon you, my brothers younger but no less zealous than these, falls the mantle of the leaders who have passed up out of sight. It is your privilege to show yourselves strong yet considerate, aggressive yet gentle, ready each week or month to couch a lance in defense of professional honor, or to speak a word of encouragement and approval to him who

Indite such thought that men shall catch up the leaves which you scatter far and wide, and give you in return the garland of praise May your good deeds be known, and all your mistakes forgotten

ORIGINAL ARTICLES

A CASE OF HYSTERECTOMY

Read before the Philadelphia County Medical Society, April 11, 1888

BY W W KEEN, MD,

PROFESSOR OF SURGERY IN THE WOMAN'S MEDICAL COLLEGE OF PHILADELPHIA

The following notes of this case I owe to the cour tesy of Dr John K Mitchell, her attending physician

Miss X, set 42, American, author Family history Previous personal history good up to about ways, pointing toward a uterine growth After two years or more of treatment, Dr S Weir Mitchell Is not this, to a large extent, the result of a want recommended that the ovaries should be removed This was done per vaginam by Dr Wm Goodell in The tumor diminished, but the winter of 1876-77 I would oppose limitation of the utmost freedom she has never been free from pain since, chiefly in For between two and three years before I This much we first saw her (January 25, 1887), her general health had been steadily growing worse, and the distress in the side increasing to such a degree that she was utterly unable to work, and was wretched alike in body

and mind Status præsens, Jan 25, 1887 Slight woman, andmic, not emaciated, complexion pasty Heart and lungs normal On examining abdomen externally a slight abnormal increase in uterus upward and to the old growth, but the patient did not desire a vaginal exploration made and I was unable to examine it There was here no pain or tenderness An irch below the lowest angle of the ribs on the left side was situated a spot not larger than a quarter of ing in situation with a similar but less defined area I glory in such an alliance Aye, make the circle of tenderness posteriorly Most of the distress com-

The kidneys could be clearly outlined by percusalways slightly sluggish and the appetite poor, no digestive trouble She slept very ill, being unable to lie on the back or on the left side, as either position increased the pain in the side, and finally caused a suffocating sensation It is also greatly aggravated | separately one position, and by constipation It is now so conher grip," of inability to work to good purpose, and of great irritability

Treatment -In spite of the previous ovarian and uterine trouble, the situation of the pain seemed to me to be so far from the former site of the ovaries that I was doubtful of their having any share in the present difficulty, though the thought of a nerve caught in the stump left after their removal occurred slight lithæmia diet did little good, and I returned to the view of the rest of the abdominal wall body, with one pole on the posterior tender spot and the other over the one in front Miss X was for two or three months much relieved by this, and grew better when a tonic mixture of iron, quinine and strychnia was given The treatment was interrupted for a short time by a slight attack of acute articular rheumatism in the left foot and ankle This yielded read-For a time cannabis indica tincor twice afterward ture at night helped her to sleep, but did no permanent good

varied, but in October she was decidedly worsemore pain, more mental and physical disability, and, finally, repeated violent neuralgic headaches The fact that there might be a pressure on a nerve, and possibly on the bowel, from the cicatrix of the old wound, again occurred to me There was possibly, also, nephritic trouble suspected In order to determine the facts, a careful examination under ether was advised

Early in October, 1887, with the assistance of Dr J K Mitchell, I etherized and examined Miss X with great care I found the uterus small, the internal measurements 21/4 inches, normal position, freely movable, the posterior wall somewhat that side On each side of the uterus a distinct tumor was found about the size of an English walnut That upon the left side was movable independently of the uterus, and was thought to be the knobbed end of the stump resulting from the previous opera tion by Dr Goodell That upon the right side moved strictly with the uterus and was thought to be a ute-No other lesson was found in the pel behind which the chief pain was complained of

the patient an exploratory operation was advised

Operation November 9, 1887, Drs J K Mitchell sion, and showed no change from the normal in their and W J Taylor assisting An incision was made The urine was natural, but sometimes con- in the middle line, 5 inches in length, from the pubes tained a slight excess of uric acid formations, bowels upward As soon as the peritoneal cavity was opened the uterus came into view and the two tumors above described were immediately recognized so intimately incorporated with the body of the uterus that it seemed hopeless to attempt to remove them In view, also, of the other addditional by very slight physical evertion, by sitting long in myomata now discovered, and described later with the specimen, it seemed to be the more unwise to stant and severe that Miss X complains of "losing leave the uterus in place, accordingly, a Keeberle serre nœud was applied to the cervix, and the body of the uterus, with its attached tumors, after separation from the peritoneum, was removed by the scissors, the lateral attachments having been first ligated. The peritoneum was now stitched over the stump. Before removing the uterus a careful search had been made in the left hypochondrium, but nothing abnor-The abdominal wound was now mal was found My treatment was at first directed to the closed, first by a continuous suture to the pento-Alkaline waters and a regulated neum, and next by a row of stitches passing through The clamp was septhe implication of a nerve in the cicatrix, and for arated from the skin by small pads of sublimate dresssome weeks passed a galvanic current through the ing on each side, and a large sublimate dressing and a flannel binder were applied

Dr George Dock kindly examined the specimen, and reported as follows

The specimen consists of the body of the uterus with 35 cm of the right Fallopian tube and corresponding parts of the round and the broad ligaments, and 1 cm of the left Fallopian tube, the round and ily to salicylates, but returned in a less degree once the broad ligaments on that side being cut off close to the uterus and the tumors described below remains of the ovarian ligaments cannot be made out

The fundus is of average size (nullipara), and ap-Throughout a summer in the country her condition pears to be cut off just below the internal os anterior surface is of normal curve About the middle of the right border is a subserous fibromyoma, the size of a small bean The posterior surface bulges excessively, the projection being due to the presence of a mural fibroid tumor which makes up most of the bulk of that part of the organ cavity of the uterus (fundus) is flat from before backward, and is triangular in outline, the opening of the tubes being in the two upper angles, the os inter-The sides of the angles measnum in the lower ure right, 27 mm, left, 22 mm, upper, 25 mm The right upper angle is at a higher level than the left, the wall of the uterus being relatively thinner on The surface of the cavity is smooth, and presents three small polypoid growths, two on the anterior, one on the posterior surface The anterior wall is 8 mm in thickness, the posterior 2 cm

The tubes show nothing abnormal To the right of the fundus in front of its transverse axis, and i cm below the level of the insertion of the round ligament, is a tumor the size of a walnut $(36 \times 26 \times 26)$ It lies in the angle formed by the broad lig There was nothing detectable in the abdomen ament and the uterus, close to the latter, being sepin connection with the left kidney, in front of and arated by loose connective tissue and blood-vessels It is covered by peritoneum, the greater part of which In view of the extremely wretched condition of is that forming the anterior fold of the broad ligament

The surface of this tumor is irregular On section

it is hard, creaks under the knife, the cut surface is dark gray in color Around the periphery are whitish ing of the pain in the hypochondrium was, I could fibrous masses and extreme calcification

Microscopic examination of this growth shows it to be a myoma which has undergone partial necrosis,

with pigmentation and calcification

To the left of the fundus, behind the transverse axis, is another tumor, slightly smaller than the one first, that I was right But no enlargement had taken just mentioned $(33 \times 26 \times 28 \text{ mm})$ Its upper surface is on a level with the fundus. Its nodular surface is covered with peritoneum, and it is separated from the uterus at a distance of 5 mm by loose connective tissue in which lie two smaller tumors On section it shows a lobular structure of firm white tissue (fibro-In the upper part are masses of hard, calcareous matter (calcium carbonate) smaller tumors in the connective tissue are myomata

For the next three days the patient complained greatly of pain, which was relieved by considerable doses of morphia It should, however, here be stated that she bore pain badly Her highest temperature was 99 7° F, and the normal was reached at the end of the third day At this time, of her own accord, she declined any further morphia. The catheter had to be used for the first three days With the exception of a rather obstinate constipation, which caused considerable abdominal pain and sleeplessness, which with the possibility of the development of tumors on last was relieved by cannabis indica, her later history was uneventful, saving in one particular The wire was tightened to the utmost limit in the course of the week after the operation, but the stump did not slough nor did the clamp become loose As the clamp was producing ulceration of the skin, it was removed December 2 The wound, at this time, was reduced to a tubular sinus leading down to the stump last slough from the stump did not come away until Dec 26, wound completely healed Jan 6, 1858

Since that date the patient has been absolutely well, physically and mentally She eats and sleeps well, and takes active exercise with more satisfaction than at any time during the last twelve years, in fact,

she is thoroughly restored to good health

To complete her history, I will add the examination of her eyes by Dr De Schweinitz "Oval discs, rather too gray, retinal haze, both venous and arterial, lymph sheaths distended This low grade of retinal disturbance is, I think, purely accommoda-There is a high degree of insufficiency of the internal recti " He prescribed the proper glasses

REMARKS -The removal of the ovaries by Dr Goodell, which was done per vaginam, was one of the earliest of such operations done in this country It reflects no little credit upon his skill that, in so contracted a vagina, he was able so successfully to remove the ovaries Although this operation relieved her temporarily from pain, it proved of no permanent Her pains returned and, though located differently, grew worse and worse, so that, finally, all mental exertion, and all physical exertion as well, became greatly hampered In fact, writing, which was her vocation, became impossible She was willing to undergo any operation whatsoever which held out any chance of relief She preferred to die rather than to live in such wretchedness

The diagnosis was very obscure What the mean The two tumors on each side of the only surmise uterus were believed to be, one a uterine myoma, and the other an enlargement on the stump following Dr Goodell's operation

An examination of the specimen shows, as to the place on the pedicle on the left side, the tumor being one of a number of myomata developed in connec tion with the uterus Its situation at the cornu uteri very naturally misled me

No other operation than hysterectomy would, I think, have been advisable. Its performance was

easy, and its results have been perfect

Why the removal of the uterus, with its attached myomata, should get rid of pain in the hypochon drium, I am unable to say To say that it was reflex pain is simply to express our ignorance in different Certain it is, however, that the removal of the entire internal organs of generation has been fol lowed with the happiest results, whereas the removal of the ovaries alone gave but little relief

I have deemed it important to report the case, in consequence of the recent question as to the results of complete and incomplete removal of the tubes the stumps after incomplete removal of the tubes My first impression, upon examining the specimen itself, was that the tumors were such knobby stumps, but after section and microscopic examination by Dr Dock, this impression was seen to be erroneous

A CASE OF HÆMOTHORAX FOLLOWING AN INCISED WOUND OF THE THORACIC WALL

Read before the Chicago Medical Society January 3, 1888, BY NORVAL H PIERCE, MD,

OF CHICAGO

The patient whom I exhibit to you is 19 years old, of healthy parents, and was six months ago in good health

On July 13, 1887, at 3 30 PM, while cutting a piece of wood with the stick adjusted against his chest, he accidentally stabbed himself in the third intercostal space, half an inch to the left of the right parasternal line The knife, which I hold in my hand, presents a sharp blade two inches in length, and half After the accident he walked an inch in breadth to a neighboring surgery, thinking the wounds of little consequence, but when he arrived the loss of blood externally was sufficient to saturate his clothes, and caused syncope

The doctor prognosticated death in a few hours, and summoned the patrol wagon At 7 P M, or 3/2 hours after the stabbing, I was summoned He had received no treatment up to this time I found the man in the condition of one who has sustained a very serious loss of blood-pale features, pinched, eyes sunken, and pupils widely dilated, surface cold and clammy, impaired hearing, pulse nearly imper ceptible and very rapid, respiration sighing There ceptible and very rapid, respiration sighing was very slight external bleeding at the wound, which

was about an inch in length From an inch above the sternum to the lower border of the liver the right side was dull, but at this time the liver was not dis-No blood was expectorated I closed the wound antiseptically, ordered an ice bag for the chest, warm bottles to the lower extremeties, head lowered, whisky, half ounce every forty-five minutes, together with ergot, very little liquids, and absolute rest

For several days after this his life hung in the bal-The pulse improved gradually, but the anæmia persisted, dyspnæa arose, together with great restlessness and troublesome insomnia, and the right fered with the drainage tube pleural cavity remained flat on percussion, the lower border of the liver gradually descended and the heart was displaced to the left, indicating that the hæmorrhage was slowly progressing. At this time the ad visability of enlarging the wound and taking up the the left bleeding vessel, or searing the lung with Paquelin's cautery, was entertained But such a procedure entailed great risk and no small amount of uncertainty, the location of the bleeding point being unsettled These facts, together with that of the patient holding his own, even in a low condition, deterred operating

Because of increasing dyspnæa I consulted with Dr Fenger as to the advisability of aspirating, under the existing circumstances, and on July 27 a gallon of dark colored blood was drawn away This did not cause the dulness over the right thoracic area to disappear, but relieved the difficult breathing and lessened the restlessness and insomnia

On August 20 I again aspirated, the lower border of the liver being within an inch of the iliac crest Another gallon was drawn away Under the microscope the white corpuscles were not greatly increased Up to this time the temperature had ranged from 100° to 101° F Afterwards it fell to normal once or twice, but generally the thermometer registered self with one

On September 5 diarrhœa set in, and lasted two very offensive expectoration The liver dulness was gradually descending and extreme dyspnæa began As the fluid in the pleural cavity now contained a perform the radical operation of empyema September 23 this was attempted best to be as expeditious as possible of the seventh intercostal were therefore simply inthe opening plugged with iodoform gauze At the end the patient was in a state of collapse, brought on, I believe, by the too sudden escape of the fluid He rallied, however, and the next day a tube was inserted and the cavity washed with a saturated solution of boracic acid at 100° F, which was repeated every second day thereafter Fever and cough disappeared on the second day The washings grew less and less colored, and in a few days the tube was removed

The case sets forth not so much the innate good ness of conservative surgery, as it does the great tolerance of the thoracic cavity of effusions nearly if not quite equal to that of the abdomen shows what a great quantity of blood may be lost without death, over three gallons being taken away in as many tempos It likewise shows that the wound from which such a hæmorrhage could issue is capable of spontaneous arrest

As regards the place for the incision, I would say the seventh intercostal space is too low, as after the first week the movements of the diaphragm inter-

As you may see, this slight cut an inch in length, with its attendant disasters, has left its mark right shoulder is depressed one inch The external circumference of the right side is less than that of

MEDICAL PROGRESS.

MEDIATE AUSCULTATION -DR JAMES K CROOK I am not in favor of a multiplication of instruments in the practice of our art. We should make it our aim to be enabled to employ the implements with which nature has provided us in as ex tended a field as possible, as they are always at hand and ready for use The artificial pleximeter and hammer, for example, I would discard entirely, as they are in nowise superior, and in some respects inferior, to the fingers of the two hands we have in the stethoscope a useful and, in my opinion, oftentimes an indispensable aid in diagnosis, and I would urge every one who proposes to treat diseases of the thoracic viscera to supply him-

The binaural stethoscope has seemed to me to possess the following advantages I It is far more or three days Cough developed soon after, with convenient than the uniaural instrument, as we can employ it while standing or sitting erect in a natural 2 As the chest piece and unconstrained position is immediately in front of the face, we may keep it marked increase in white corpuscles, I decided to under constant observation and shift its position from On point to point with the greatest facility 3 By dı-At this time recting the patient to hold the distal extremity of the there was a marked lowering of his general condi-instrument between his fingers, we may have the free At the time of the incision I purposed remov- use of both hands for manipulation, as in performing ing one or more ribs, but on account of the alarming auscultatory percussion, etc 4 By closing both manner in which he took the ether we thought it ears it excludes all foreign noises. For the foregoing The tissues reasons I invariably employ this instrument, and recommend it to students of physical diagnosis cised, about a gallon of fluid allowed to escape, and cretion should be used in the selection of a stethoscope I fancy that many of the objections to the Camman instrument have arisen from the fact that the instrument employed was not at all suited to the auscultator's ears Always see that the aural extremities of the instrument are arched to correspond with the external auditory canal Do not have the earpieces too large, or, on the other hand, too small to fit the meatus of the ear The spring or rubber band which connects the ear-pieces should be just tight enough to allow the ear tips to adapt themselves

without discomfort to the ear Different heads are of different diameters, and an instrument which would suit one would perhaps be totally unfit for another See that your stethoscope is supplied with three chestpieces—a narrow, hard rubber piece for cardiac auscultation, a wide-brimmed piece, also of hard rubber, for the lungs, and a soft rubber piece, which has an occasional application in very thin patients with many bony prominences

Personally, I find the stethoscope of special im-

portance in the following cases

In auscultation of the veins and arteries of the The adventitious sounds produced in these vessels, as, for example, in chlorosis, are often very circumscribed, sometimes being limited to a small space on one side of the neck I have been able to detect these sounds and to map out their area with the stethoscope after they had altogether escaped the attention of the unaided ear In auscultating this region, direct the patient to cease breathing temporarily, as the respiratory sounds may give rise to confusion, and do not make too much pressure over the large arteries, as it is sometimes possible to generate an artificial murmur in this way The stethoscope is also of occasional service in making out and locating obstructions in the laryny and trachea

2 In auscultation of the heart A cardiac murmur can be heard with great distinctness by the unaided ear, but I believe it to be well-nigh impossible in many cases to locate it or trace it to its point of origin by this means It often happens that two or more murmurs are present at the same time in the heart, and it requires the nicest scrutiny to analyze them and refer them to their points of development In immediate auscultation, the entire side of the head comes in contact with, and receives the impact of, the cardiac impulse as well as the ear There can be no doubt that the angle of the jaw, the temple, and the zygomatic process may serve as conductors of sound, so that in immediate auscultation the sounds heard correspond, not to a space as large as the ear, but as large as the side of the head This view was advanced by Laennec, and has not been concurred in by many subsequent observers, but experience leads me to believe in its correctness Sometimes, also, the heart is acting so irregularly that we cannot even distinguish the systolic sound (the cardinal tograph and other "graph" compositions are made point in cardiac examinations) by auscultation using the stethoscope, however, we have the præcordial area directly before the eye, and we can thus often see the impulse of the heart against the chest, which corresponds in rhythm with the first sound In females, aside from the question of decorum, it is frequently almost a mechanical impossibility to adapt the ear accurately to certain portions of the præcor-Imagine, for example, the difficulty of dial region applying the ear to the mitral area of a female with a largely developed pendulous breast avoid using the stethoscope here if we wish to make to be irritated by the instrument anything like an accurate diagnosis

3 In determining the size, and sometimes the num- cases of the chest-piece (the narrow one should generally should not be introduced into it, the surgeon being be used here), we can often arrive at a very fair idea able to tell when the prostate is reached by the

of the size of excavations in the lungs and sometimes even of their number Auscultatory percussion is useful in such cases The patient may be directed to hold the chest piece in situ, which leaves both hands of the auscultator free Percussion may then be made in the usual manner with a radius of half an inch or an inch from the rim of the stethoscope By practice, the shades of difference in the percussion note may be appreciated with far greater distinctness by this means than through the medium of the ear I feel assured that all who give this method a fair trial will find it tar superior to the old-fashioned method of Drs Camman and Clark with the one ear wooden percussion stethoscope

In addition to the foregoing you will sometimes find other conditions in which the stethoscope will be useful, as, for example, in skin diseases and in contagious diseases generally, in which you may have occasion to auscultate the lungs or heart The ad vantage of this instrument in an examination for the

fœtal heart sounds needs no urging

Except as indicated, I seldom use the stethoscope for pulmonary auscultation It is of little special use in examining the posterior aspect of the thorax, for the reason that the physical signs of disease in this region, as, for example, in bronchitis, emphy sema, asthma, pneumonia, etc, are not apt to be circumscribed, and the unaided ear has the advan tage of being more rapid This is a point of special importance in weak and debilitated subjects, whom we frequently have to support in bed while this region is being examined — The Post Graduate, Janu ary, 1888

Treatment of Gonorrhæa by Antrophores — DR HUGO LOHNSTEIN, of Professor Zuelzer's poly clinic in Berlin, has found, as the result of observa tions on ninety-three cases, that gonorrhœa, both in its acute and chronic form, usually yields more read ily to systematic treatment by a kind of medicated soluble bougies called antrophores than to other meth These antrophores are made by Herr Stephan, a pharmacist in Treuen, Saxony, and consist of a nickel-plated metallic spiral containing a soft medi cated material, the basis of which is gelatine and glycerin—the same kind of thing, in fact, as the hel Before the introduction of the bougie the ure thra is well syringed out by a Zuelzer's apparatus with a 2 per cent solution of boracic acid Regard ing this Dr Lohnstein remarks that the mere passing of urine by the patient is quite insufficient to cleanse the passage from secretion, as anyone may easily convince himself by an examination with the endo As a rule, a single bougie is sufficient during Indeed, when the introduction twenty-four hours was repeated several times a day no better result was We cannot obtained but, on the contrary, the urethra appeared These bougles must be differently applied in acute and chronic In an acute gonorrhea, where the prostatic By a careful adjustment portion of the urethra is not affected, the bougie

der, which may bring on strangury and even cystitis The surgeon guards against this by asking the patient to tell him when he feels as if the instrument were in He then knows that it is in the prostatic the bowel portion The medicament mostly used by Dr Lohnstein is thallin. For the first and second day bougies ployed, even this strength occasionally produces a spirit method sensation of burning On the third and subsequent to introduce the bougies themselves, for they are liable to set up hæmorrhage and to push the instrument into the bladder. In an acute case the thick secretion is usually changed by the third day into a thinner and clearer fluid, during the next few days the quantity of this gradually diminishes, and the secretion has generally entirely ceased in from eight to fourteen days' treatment Complications such as are produced by injections very rarely occurred, epididymitis never, cystitis in two cases only, and in these it was probably due to faulty introduction of the bougies sisted other measures cases to treat is, of course, the chronic form it was often found that, though the secretion could be greatly reduced, any attempt to lengthen the in tervals of the introduction of the bougies was liable to be followed by a return to the original condition Where the prostate and its ejaculatory ducts are affected, it is often necessary to have recourse to bou gies of different kinds—e z, zinc, tannin, rhatany, nitrate of silver, quinine, or sulpho ichthyolate of Of course, where, instead of the muammonium cous membrane generally being inflamed, there is a small ulcerated patch, these bougies are useless, and the endoscope must be employed as a guide to special local treatment — The Lancet, March 24, 1888

ACETIC ACID AND STRYCHVINE AS AN ECBOLIC -MR G 5 MAHOMED, of Bournemouth, says

Since Dr Grigg called attention to the value of vinegar as ecbolic, I have frequently used it for that the strong acetic acid (representing nearly half a) been successful in bringing about contractions of difficulty saved from a burning house the uterus after ergot had failed seemed to be leaving her, and ergot had been exhibited (the waters having broken), I found acetic acid and strychnine produce sharp and effectual pains

Dr Francis, of the possibly good results of combin- ever

greater resistance caused by the circular muscular a menstruum, with a standard surplus of free acid In chronic gleet, where the prostatic portion In a short time I received from them two samples, is affected, the bougie should be made to enter it, one of ergot extracted by acetic acid, of which a but ought always to be kept from entering the blad- fluid drachin represented 60 grains of ergot with ten minims of free acid, the other, an alcoholic extract of ergot, which also represented 60 grains of ergot and to minims of free acid in each drachm preparations had the color of the ordinary extracts, but the acetic acid frothed when shaken, which, of course, the alcoholic extract did not do containing 2 per cent of this substance are em- acid process should be more economical than the

In a case where there was retained discharge after days a bougie with 5 per cent of thallin can usually labor I gave some of this extract, and when the be borne It is not found advisable to allow patients medicine was exhausted wrote a prescription for a similar dose of B P extract, to which I also added some bromide of potash, which is stated to aid the The case was still unre involution of the womb lieved on my next visit, the uterus being obviously distended, so, after syringing out the cavity, I told them to have the medicine made up again, when the patient said, "Oh, sir, the medicine you gave me at first brought away something every time, but this medicine has done no good" This seems like a comparative test in favor of the acetic extract

> In a case of flooding, due to a large fibroid, I Several cases were cured that had re- found that 20 minims injected deeply into the but-The most difficult class of tock gave rise to no local irritation, and there was Here no bleeding the night following, but there needs further experience before attributing this result to the drug Ergotine discs did not always control it -British Medical Journal, April 7, 1888

DERMATOSES FOLLOWING MENTAL SHOCK -DR Dubois-Havenith, writing in La Clinique, adds some further instances of dermatoses following mental shock to the case of purpura hæmorrhagica recently described by Professor E de Smet 1 An unmarried lady who had been present when a man armed with a spade violently attacked another man was much upset by the sight, and did not regain her accustomed composure for some days Three weeks later bullæ presented themselves on different parts of the body, and before long the entire cutaneous surface was covered with an eruption, having the characters of foliaceous pemphigus, accompanied by incessant pruntus Arsenic, quinine, and other remedies exer-And I have also found that four drops of cised but little effect, or at least only a temporary one for the patient succumbed after four years in a drachm of vinegar) combined with strychnine has state of marasmus 2 A little girl of 10 was with In one noteworthy time her appetite became bad, and she was haunted case where in a very weak and an emic woman the by constant nightmares and visions of houses on fire pains, after continuing feebly for a day or two, A month afterwards a pemphigoid eruption made its appearance on the nose It spread to the mouth and then disappeared Shortly, however, it again manifested itself, covering a large part of the body Iron and quinine appeared to be of but little service, for The same thought, therefore, occurred to me as to in nine months's time the eruption was as copious as Two or three drops of Fowler's solution of ing it with ergot, and, in addition, observing that arsenic three times a day soon worked a marvellous acetic acid could extract the active principle from improvement, which it was evident was really due to colchicum and ipecacuanha, I asked Messrs Corbyn the arsenic, for twice when the medicine was interto make a preparation of ergot, using acetic acid as mitted for a time the eruption returned 3 A married woman had a quarrel with her husband, who struck her on the cheek with a key Four days afterwards an cruption came out on the wrists, the hands, This eruption had the characters of and the feet Hebra's multiform usudative crythema, and was accompanied by intense itching. On the lips there was a vesicular, tumefied eruption, and patches on the tongue The whole disappeared in about three weeks -Lancet, April 14, 1888

DETECTION OF COTION SLED OIL IN OLIVE OIL -Ernest Millian, of Marseilles gives the following as a ready method of detecting cotton-seed oil in It is based on the power of reducing the fatty acids of cotton-seed oil In a porcelain dish holding about 1000 cc, heat 15 cc of the oil to be examined, to 110° C Then, the heat being continued, turn slowly into the oil a mixture of 15 cc of a solution of caustic soda in distilled water, at 40° Baumé, and 15 cc of alcohol at 92° After the mass has became homogeneous by ebullition, indicating complete saponification, add drop by drop, so as not to cool the mass nor form lumps, about 500 cc of distilled water After boiling for a few minutes the fatty acid may be separated by means of a r 10 so When the separation lution of pure sulphuric acid is complete, and the sulphuric acid is slightly in excess, collect 5 cc of the fatty acids with a silver spoon, and place in a test-tube—one about 3 cm in diameter and 12 cm long Now add 20 cc of alcohol at 92°, and heat slightly on a water-bath to dis-These being dissolved, pour solve the fatty acids in 2 cc of a solution of pure mitrate of silver (30 grams to 100 cc of distilled water), replace the tube on the water-bath, and heat until about a third of the mass is evaporated, take the test tube from the bath, and the operation is over

Whatever be the source of olive oil its fatty acids remain unaltered if the oil is pure, if, on the contrary, the oil contain cotton-seed oil, even as little as r per cent, there is a reduction, and the metallic silver set free gives a black color to the fatty acids of the mixture as they rise to the surface -Nouveaux Remedès, No 5, 1888

PERCHLORIDF OF IRON AND MILK IN DIPHTHE-RIA -M MOHAMMED BEN-NEKKACH, of Inkermann, reported to the Association Française pour l'Avancement des Sciences on March 30, that he had treated 21 patients with diphtheria with perchloride of iron and milk, with only one death, in the case of an in-Among the other patients were fant six months old All the patients were treated from the two adults beginning of the disease, before the period of as-Independently of the 21 there were six other patients, that could not be treated properly on account of indocility, or in which the treatment was not properly carried out, or because treatment was begun too late

In all the cases that recovered, and most of them were severe, the iron was given in doses of 25 to 30 The quantity of milk given was a litre mirably in drying up the new blebs, and preventing gtts in a glass of water (the solution being fresh for As adjuvants were prescribed emetics and their return each dose) a day

painting the pharynx three times a day with the iron -Semaine Medicale, April 4, 1888

ACETOPHENIDINE —M GUERORGUIEWSKY has em ployed acetophenidine instead of antipyrin It is a crystalline grey powder, insipid and inodorous, de rived from phenol, it is soluble only in 20 parts of alcohol, and is eliminated by the urine, wherein it can be detected by the red coloration with perchlo In typhoid fever, tuberculosis, erysip ride of iron elas and pneumonia, in doses of from 15 to 30 centigrams, he found it to act as an antipyretic in from twenty to forty minutes after injection, the pulse and respiration diminishing in frequency, and sweating being induced It also relieved pain, but doses of 50 or 60 centigrams are required to effect this end, as in migraine, cephalalgia, and tabetic pains It never upset the stomach, or modified any of the other functions of the body, in this respect it claims to be superior to antipyrin -The Lancel, March 24, 1888

PERRO'S METHOD OF REDUCING STRANGULATED INGUINAL HERNIA -G S PERRO uses the following After the pelvis has been raised on a method pillow, and the thigh flexed and abducted, the op erator grasps the scrotum and the hernial tumor, bends it slightly against the wall of the abdomen, and presses upon it in such a way that the index finger of the right hand is carried into the inguinal canal, and in the direction of the horizontal ramus of the pubes by a turning and boring motion, in a short time the strangulated part slips back into the abdominal cavity, and the other part follows By this method Perro has succeeded in reducing six cases of strangulated herma, after his colleagues had spent from twelve to thirty hours in vain attempts at reduction - Centralblatt für Chirurgie, No 12, 1888

ACETANILIDE-MONOBROMO -MESSRS BURGUYNE, BURBRIDGES & Co, have prepared a combination of antifebrine or acetanilide with bromine, which it is suggested may prove useful in facial neuralgia when the pains in the head are linked to nerve alterations, also in rheumatic, muscular, and articular pains The name given to the compound is acetamilide mono bromo, and its formula is (C₀H₁BrN < CO₁CH₂)

-Lancet, April 14, 1888

Infusion of Digitalis in Pneumonia - Prof PETRUSCO, of Bucharest, reports the very successful treatment of 142 cases of pneumonia by large doses of the infusion of digitalis-from one to two drams of the leaves in infusion in the twenty four hours In no case were any evil effects from these large While it does not appear that the disease was materially shortened, the mortality was much below the average—the death rate being only one per cent - Weekly Med Review, April 21, 1888

A PASTE FOR PEMPHIGUS —UNNA recommends 2 paste made of equal parts of linseed oil, lime water, oxide of zinc, and chalk, which is said to work ad

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address although not necessarily to be published. All com munications in regard to editorial work should be addressed to the Editor

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SATURDAY, MAY 12, 1888

THE PRFSIDENT'S ADDRESS

The able Address on "The Mission of the American Medical Association," delivered by President Gar-NETT, on Tuesday, should be read carefully, and especially by the teachers in those medical schools that have neither requirements for admission to their classes, nor systematic graded courses of instruction The opinion that students of medicine must have a good preliminary education before entering a medical school, and that public interest, and the welfare of the individual student as well as of the profession as a whole de mand systematic graded courses of instruction is becoming more general each year, and will bear good fruit when the colleges that are still out of line find that it is to their interest to put up the bars both for entrance and for graduation

It is useless to enter into any argument with those that assert that the American Medical Association has accomplished nothing in the way of medical re-The Association has always stood in the van of medical reform and high medical education, and high requirements for admission to medical study Obviously, however, not being a legislative or judiciary or police body it could go no farther than the making of wise suggestions-it has no compelling is the students' fees, regardless of whether they be compelling and police powers in such matters must palpation in obstetrical diagnosis

The effect of the passage of medical vidual States practice acts and the creation of boards of health and of medical examiners by different States has been felt in a large number of colleges requiring preliminary education for the study of medicine, longer terms of medical study, and graded courses have increased markedly during the last six or seven years, and the good work still goes on And even the colleges that had not sufficient regard for their reputation and for the welfare of the profession to raise their requirements, have, in some instances, shown that they recognized the justice of the requirements of State boards by specious and evasive announcements of new requirements—seemingly afraid that they would lose patronage, on one hand, if proper requirements were made, and that, on the other hand, some of their graduates would fail of admission to practice in certain States if improper requirements were shown to exist

Dr Garnett has a few words for the colleges that claim that the colleges should not be held responsible for graduating illiterate and incompetent students, that preceptors are supposed to send to the colleges only such students as are fitted for the study of medicine, and he is justly suspicious of the colleges that simply announce that certificates of educational acquirements are required of all students before matric-And he might have added some words regarding those institutions that make some such announcement as the following Certain States having passed laws requiring preliminary examinations, in order that students from this college may not be embarrassed the Faculty will grant preliminary examinations to such as intend to practice in the States requiring such examinations Can such announcements be regarded otherwise than as an evasion of the regulations of certain State boards?

The propositions suggested by the President do not require elaboration nor discussion While the second may at first seem harsh and impracticable, it is at least as fair for the one as for another

NE SUTOR ULTRA CREPIDAM

The most important work in midwifery performed by the Chicago Gynæcological Society, during the power over the colleges and teachers whose chief aim brief period of its active existence, has consisted in the frequent enunciation of the Semmelweiss doctrine qualified by nature or education for entering a noble of the nature and prevention of puerperal fever, and Under our system of government the the repeated discussion of the method of abdominal The Society is to be vested in the medical boards created by the indi- be congratulated upon the faithful execution of a

duty of vital significance both to the profession and to the community On general principles, one would naturally have thought that the numerous essays on both subjects were works of supererogation and unworthy of presentation before a body claiming to be constituted by specially qualified practitioners much of the same tenor has been ably and authoritatively written upon both topics within recent years Moreover, absolute unanimity of all opinion entitled to highest consideration has existed for a long period

But the outspoken skepticism, both as to the nature of puerperal fever, as expounded by Semmelweiss, and as to the value of abdominal palpation, displayed in the discussion of these essays, demonstrates their timely character, while it also suggests the melancholy fact that medical men do not always read so much, nor so attentively, as might reasonably be expected of members of a learned profession lwith a magnificent literature

It was urged by a very small minority of the members of the Society that formal indorsement of the view, that vaginal examination of the parturient woman ought to be discouraged, should be withheld upon the ground of possible medico legal complications, that papers suggesting the notion of the responsibility of the physician or nurse in case of puerperal fever, must be suppressed for the same reason —the danger of suits for malpractice

Here we have verily an old foe not even with a new face—an application of the doctrine of expediency at once curious and amusing, if the importance of the subject did not render the matter pathetic The vital moment of the issue is sufficient apology for making this local and relatively trivial protest the text of an editorial note

of the Semmelweiss doctrine is wholly irrelevant to The truth or falsity of the theory the discussion In passing, it may be remarked only concerns us that the plea of self-interest has never been very popular among medical men-probably on account of the native nobility of the science, possibly, also, because it is almost always the sign of a weak cause O: course, the belief that every case of puerperal fever arises from the resorption of decomposing animal organic matter through lesions in the genital tract, and that the materies peccans is invariably introduced from without, throws tremendous responsibility upon physician and nurse In the concrete case of puerperal fever, provided the control of the patient has been entirely given up to physician and nurse, one or other—or both—are responsible for the The woman is either infected directly by disease

contact through the fingers, instruments, and the like, or indirectly by the cocci within the vagina, on the skin surface, or in the clothing The doctrine is undoubtedly a harsh and unpleasant one for the attendants, and it is only "the hard evidence of facts, la brutalite des faits, which forces us to accept this theory" Our predecessors "were helpless in the prevention of puerperal fever, but they never had a sleepless night from remorse" The Semmelweiss theory, supported by "irresistible facts contributed by physicians in all parts of the world," constitutes an integral portion of medical science, and is no longer a legitimate subject for discussion tistics of Leopold, Freund, Credé, Carl Braun, Tarnier, Richardson, Garrigues, are interesting and valu able, but they are not necessary to the establishment of the fact That was fully accomplished long since

Is it not, then, remarkable that the Medical Stand ard, of October, 1887, takes up the gauntlet in an editorial entitled "Medico-legal Dangers from too Positive Assertions" From the general proposition, "Physicians cannot be too careful in stating a favor ite hypothesis as an established truth of science, one cannot withhold his assent, although one may tail to perceive the necessity for the repetition of a But in the case in question, the plea trite platitude of self-interest was urged against the indoisemententirely superfluous, it is true-by the Society of "an established truth of science" and not of "a favorite hypothesis" The writer of the note was unhappy in the selection of his illustration—that is Was he also ignorant of the present perfectly plain state of our knowledge respecting puerperal fever? If the note is the expression of irresponsible opinion, as it seems to be, we beg to suggest the fitness of It is perhaps needless to say that the expediency imitating the sobriety of the French cobbler Parisian bootmaker," the chronicle tells us, being asked his opinion of the respective merits of Turenne and the Grand Condé on the same stricken field, replied 'I made the boots of both gentlemen, as far as boots go there is not a pin to choose between them, beyond that I cannot go, for it lies outside of my profession,"

Ne sutor ultra crepidam

THEINE AS ANALGESIC

A contribution to the therapeutics of pain by an intelligent worker may be always welcomed as a step forwards in the treatment of disease little book that has recently appeared from the wellknown pen of Dr Thomas J Mays, of Philadelphia

¹ Kucher

"A physiological Contribution to the Therapeutics of Pain," as he calls it, being a reprint of a con tinued article that appeared in the Polyclinic, from Dr Mays' first last September to February, 1888 contribution to the therapeutic action of theme appeared two years and a half ago, at which time he thought that what was sold as theme was actually Since that time he has obtained pure specimens, and revised all his former work on the subject

Theme and caffeine are alike in first affecting the anterior extremities of frogs, and both diminish respiration and cause hyperæsthesia during the latter (later?) stage of the poisoning, although the supersensitiveness is much more marked in theme than in They differ in the following respects caffeine Theme principally effects sensation, while caffeine does not, theme produces spontaneous spasms and convulsions, while caffeine does not until very late in the stage of poisoning, theine impairs the nasal reflex early in the poisoning process, while caffeine does not, if at all, until the very last stage, the lethal dose of theme is larger than that of caffeine differences are sufficient to show that theme and caffeine are not identical in physiological action, though chemists describe them as being the same chemically—which it is not at least fair to question until further analyses are made, for while it by no means follows that two isomeric substances have similar properties, it may be doubted if two asomeric, or even metameric bodies would have such different physiological actions Of the purity of the caffeine and theine used by Dr Mays, it is sufficient to say that precisely identical results were obtained from two separate manufactures of both alkaloids by Merck, of Darmstadt, and from specimens made by Mr Wm C Harris, a Philadelphia chemist much by way of explanation of a number of supposed failures of theme in the hands of other physicians after the publication of Dr Mays' first article

The physiological action of theine on man, as deduced from a number of experiments by Dr Mays, may be summed up as follows Dose from 2 to 5 Numbness of the arm and hand below the seat of injection-"a feeling as if the hand had been steeped in a solution of carbolic acid," a feeling of coldness and an occasional disturbance of temperature of the member under its influence A slight reduction in the pulse rate, and no intoxication of No impairment of motion The anresthesia begins in a very few minutes, and is much more marked in some individuals than in others A relief to the sensation of fatigue Temperature dis- affections of the sensory nerves

In four cases in which the turbance not regular temperature was taken, the hand that showed the greatest depression of temperature was least anæs-The psychic disturbances caused by deep injections in Dr Castle's experiments upon himself (Medical News, Dec 15, 1885) were probably caused by the introduction of the solution directly into a vessel, since Dr Mays, even with five times the quantity used by Dr Castle, has never observed any It may be said, then that phenomena of the kind I Has a special affinity for the nerves of 2 It produces anæsthesia when administered subcutaneously 3 Its anæsthetic action is confined below the seat of its injection, te, its influence extends from the centre to the periphery, and not in the opposite direction

Its physiological action, then, shows that in theine we have an agent that paralyzes sensation without affecting motion, and that this effect is certain and without injury to any part of the body, even in large According to Dr Mays, in order to obtain the full effect of theme it is not necessary to inject it deeper than immediately below the skin, and Dr Castle's experience with it shows that deep injections may cause unpleasant symptoms Dr Mays says that the analgesic action of the drug is very prompt, and when a single dose fails to act favorably, it is ad visable to increase, even if this has to be done to a large extent-as much as gr 25 or more seen no prolonged irritation, and no inflammation at the site of injection, though there is some burning at first, which disappears in a few minutes, and is replaced by a marked area of anæsthesia The drug is more soluble when prepared with benzoate of A solution for hypodermatic use may be made of theine and sodium benzoate aā 31, sodium chloride gr 8, distilled water 31, \$\mathbf{m}\$ 6 contain gr 0 5 of theme Theme tablets for hypodermatic use are also made

Theme is solely a pain reliever, but in cases of obstinate and protracted pain it must be aided by other drugs that improve the nutrition of the affected nerve, or that may remove the persisting diathesis As regards the difference between theme and morphine, Dr Mays sums it up as follows necessary to narcotize the centres innervation in order to relieve a given pain, then morphine is indicated, but when it is not necessary to do this, theine will accomplish the work safer, better, and more promptly than morphine On general principles it may be said that morphine gives the best results in acute pain, while theine is most beneficial in chronic

DISTILLERY FLD CATTLE IN CHICAGO

For the second or third time the Mayor of Chicago now says that slop-feeding in Chicago must be dis continued, and he will have all the cattle sheds removed from the city limits This decision is based upon the report recently made by an expert who was detailed to ascertain the amount and cause of pollution in the Chicago River Strange to say, the head of the city government would not allow a reporter to see the expert's report To use his chaste and elegant diction, "It's too tough to be printed much worse than was expected " The Tribune suggests that the real reason for withholding the report is that it would furnish evidence for Peoria and other towns below Chicago on the Illinois River to use in the threatened suit against Chicago for not taking proper care of its sewage

This distillery feeding of cattle, which has been carried on for a long time in direct violation of the law, has been connived at, and in fact allowed, because "It isn't profitable to our distilleries unless they can feed cattle " "The distilleries will have to make some arrangement to feed their slop or lose The result of the enforcing of the order will be to make them move their entire plants to some other point " Then so much the better for Chicago and the worse for the other point If the Chicago brewers and distillers cannot make a handsome profit on the adulterated abomination they are selling to the public at an enormous advance on the cost of making, by all means let them move to some other point-or go into some honest business

EDITORIAL NOTES

DR EMIL BESSELS, the well-known physician, naturalist, and arctic explorer, died of heart failure at Charfreitag, Stuttgardt, on March 30, aged 40 Dr Bessels was well-known in scientific ciryears cles in this country, having come to America in 1871 to undertake the scientific direction of the North Pole Expedition under Hall, on the Polaris wrote the "Physical Observations" of the narrative In 1876 he settled in of the voyage of the Polaris Washington as Secretary of the Smithsonian Institution, until his house was burned, and he narrowly escaped with his life on Christmas Eve, 1885, when he returned to Europe and settled in Stuttgardt, where he remained until his death

THE USE OF VESICANTS—WYSS, of Geneva, has schoo published a veritable diatribe, in *Der Forschritt*, Facul against the use of vesicants, asserting that the use of ology

them is a useless cruelty, and that he has never had any good effect from them in pneumonia, pleurisy, sciatica, and other affections, that they interfere with the patient's sleep, act disagreeably on the unnary organs, and cause obstinate eruptions, and that they increase the fever, and may affect the general condition of the patient unfavorably That vesicants are abused in many cases there can be but little doubt, and there is scarcely less doubt that rubefacients or at most "flying blisters" would be of more service in many cases in which vesication is used as Wyss' experience with blisters in pneumonia are concerned, it is important to know in what stage of pneumonia they were used, since it is admitted that they are harmful in the inflammatory stage

BICHLORIDE OF MERCURY IN TYPHOID FEVER -GLASER, of Hamburg, gives the results of the use of bichloride of mercury solution, 1 4000 or 5000, in The interest that attaches to his evtyphoid fever periments is in the attempt to determine whether it is possible to kill the bacilli of typhoid fever-or cure the disease by antiseptics and germicideswithout killing the patient Glaser used the solution in 23 cases, and his mortality, 21 per cent, is suffici ent to make anyone at least extremely cautious in using it in the future, and as there does not seem to have been any positive gain from its use there seems to be no reason for repeating the experiments Certainly, his cases showed none of the improvement seen in the treatment by calomel, so much used by some distinguished German clinicians

DR MIDDLETON has, as was to be expected, been acquitted of the murder of a gypsy guide, who attempted to take his life in the cathedral of Cordova, Spain It may be remembered that when at the top of the cathedral tower the man seized Dr Middleton from behind, after having his stick wrested from him, the doctor drew a revolver he fortunately had with him, the first shot entered the gypsy's mouth, the second pierced his heart. The shots were fired at the assailant over the doctor's shoulder.

THE "WIENER KLINISCHE WOCHENSCHRIFT," the first number of which appeared on April 5, is to be published under the editorship of Dr G Riehl It is more pleasing to the eye than most Continental journals

A FACULTY OF MEDICINE FOR MARSEILLES— There is a scheme on foot for elevating the present school of medicine of Marseilles to the rank of a Faculty, and adding to the school a chair of Bacteriology

SOCIETY PROCEEDINGS.

MEDICAL SOCIETY OF THE STATE OF CALIFORNIA

Eighteenth Annual Meeting, held in San Francisco, April 18, 19 and 20, 1888

[Report furnished by the Sacramento Medical Times]

FIRST DAY-WEDNESDAY, APRIL 18

MORNING SESSION

The Eighteenth Annual Meeting was held at B'nai The Society being called to order by B'rith Hall THE PRESIDENT, R H PLUMMER, M D, of San Francisco

C G KENYON, of San Francisco, on behalf of the resident members, extended a hearty address of welcome to the visitors from abroad He alluded to the material advances which had been made in the State during the past year He directed attention to the exhibition in connection with the meeting and dwelt upon the importance of the new feature

THE PRESIDENT, R H PLUMMER, of San Francisco, then delivered the Annual Address The following subjects were recommended for the consideration of the Society vised that no body should be interred without a permit from a board of health, health officer or justice of the peace, upon a certificate from a legally qualiwritten statement of two reputable citizens The permit or certificate to be duly recorded connection he alluded to the necessity of the formation of local boards of health in the smaller towns and pointed out that no further legislation was needed as the supervisors have been armed with the necessary authority The necessity for the establishment of a quarantine station at the Port of San Francisco was urged and the existing deficiencies pointed out, together with the present status of the measure now before Congress appropriating the necessary funds for this purpose The importance of a State law compelling the vaccination of all children before entering the public schools was urged At present several cities have ordinances providing for compulsory vaccination within their limits, but are constantly exposed to infection from abroad A general enact ment would make this protective measure universal Regarding the existing law providing for the recording of births, marriages and deaths, which has frequently been mentioned as inoperative and impossible to enforce, he directed attention to sections 3075 and 3077 of the Political Code and sections 377 and 378 of the Penal Code, where adequate penalties were pro-The present condition of the Constitution advisability of appointing a committee to revise and codify the same was urged The recent action of course from every applicant for a license to practice trol of the superintendents

in this State was mentioned and the suggestion made that the Society heartily endorse the same necessity for a good primary education was dwelt on, and mention made of provisions in the bill now before the Society in which this had been provided The following committee was appointed to report on the recommendations contained in the President's address C E Blake, W W Kerr, S O L Potter, H S Orme and J H Parkinson

AFTERNOON SESSION

The Secretary, WM M Lawlor, read the

REPORT OF THE BOARD OF EXAMINERS

The number of meetings held during the year was 13, certificates granted, 265, duplicate certificates issued, 2, applications refused, 5 Amongst those receiving certificates were 37 graduates from Califorma schools The work of the Board was steadily increasing, the number of certificates issued being 59 in excess of the previous year

DR A L GIHON, on behalf of the

RUSH MONUMENT COMMITTEE,

made a statement of its object and purpose said When we determined upon erecting this monu-In accordance with a bill ment, it was resolved, as there were 90,000 physicians introduced at the instigation of the State Board of in the United States—there are now 100,000—to Heath at the last session of the Legislature, he ad-limit the subscriptions to one dollar, and we should at least get one-quarter of that number to subscribe I am quite sure that out of the 100,000 physicians in the United States we will find a quarter, at least, who fied physician, the coroner, or, in default of this, the will give us a dollar, and that will build a handsome monument A great many physicians wanted to In this give more, but we were satisfied that we would receive more funds than we needed

Drs Gihon, Tyrrell and W P Gibbons were appointed a committee to collect subscriptions from the Society

The report of the Committee on Mental Diseases and Medical Jurisprudence was read by DR W W MACFARLANE, of Agnew The speaker alluded to the barbarous treatment to which the insane were formerly subjected The insane in California were amply provided for He believed that the feebleminded and idiots should be treated in their own county hospitals, which would be more economical than sending them to the State asylums More than 60 per cent of patients in the asylums are of alien There has been an average of 152 Chinamen, and a cost of \$22,000 each year California is the only State having no Sunday law To this much of our insanity, which depends on drunkenness, is due He alluded to the prevalence of fœticide, which he thought had much influence on mental diseases, in consequence of physical deterioration resulting from Mental and moral treatment had much to do Here the number of inmates was so with recovery and By Laws of the Society was mentioned, and the great that it was impossible to give them much atten-He deprecated the custom existing in this tion State, whereby the management of the asylums and the Board of Examiners in raising the standard of the appointment of the officials was in the hands of qualification, and requiring a three years' graded boards of trustees, instead of being under the con-

DR J W ROBERTSON, of Napa, in opening the discussion, said The question, whether or not insanity is on the increase, had often been discussed There was no doubt that the number of the insane had increased opened they were looked upon as jails It was found tained there?" that but little restraint need be employed reception wards of the asylums were placed some of enough to be discharged there was no alternative the most intelligent patients, who understood the rules of the institution and were quiet Patients, on their way to the asylum, are frequently subjected to rough usage, and consequently arrive in an excited there should be no recurrence, and it was the same and exhausted condition, but on finding that they are thing in mental diseases surrounded by quiet and order they soon calm down There was not a single straight jacket in Napa or a Chronic and acute dozen patients under restraint cases should be kept apart. One violent patient would upset a whole ward It was desirable that the insane should be sent to the asylums early, as under the influence of strict rule and hygienic measures Theoretically there they were invariably benefited This, of should be an asylum for every county course, was impracticable, but there ought to be an asylum for every congressional district the question of increasing the number of physicians in the asylums—of the 1,400 cases in Napa, about Soo received very little medical treatment. In other States, where the staffs were numerous, the salaries were small The best men were therefore not attain-It required a able, and there was no permanency year's training for a physician to be successful with He believed that the existing system The suggestion that there should be was the best one law for the government of the State asylums was At Napa the Board had absolute an excellent one control over the appointments and dismissals

DR W H MAYS, of Stockton, said that insanity was not more prevalent in this State than elsewhere There were in Stockton 1,600 cases, in Napa 1,400 Estimating the population of the State at one million and a quarter, the rate would be one in four hundred now -a very low percentage In New York, the perce itage was i in 352, Massachusetts, i in 362, Illinois, 1 in 345, Great Britain, 1 in 348 The profession should endeavor to remove the prevalent belief that this State had more than its share of insanity In no State in the Union were the insane so closely There seemed to be an intolerance of sifted out any form of mental disease, and all cases were promptly sent to the asylums He believed that there was a crying need for more medical help was true that a large number of the inmates did not require medical treatment, but they required what was of more importance—care, employment, amusement and general surveillance He was glad to learn that the asylum for the chronic insane would soon be

DR H D ROBERTSON, of Yreka, said that it frequently happened that patients were discharged be-He was glad to know that fore they were cured there would soon be more accomodations for the insane, and he hoped the physicians in charge of the make an effort to hold these patients until they were ing the discussion, said that he regretted that the cured

DR MAYS thought that if the speaker was present in the asylums for a few months he would modify his statement that the authorities were hasty in discharging patients The question of discharging a patient When the insane asylums were first really was, "Is he so insane that he needs to be re-When patients recovered, to all In the intents and purposes, and when they became sane other than to do so, even if they again became in-Patients are said to have recovered from dis eases, as pneumonia, but that did not guarantee that

DR GROVER, of Berkeley, said that the overcrowding of the asylums was partly due to the fact that what are called "insane criminals" are sent there There should be a branch asylum attached to the State Prison at Folsom or San Quen'in for such cases

EVENING SESSION

DR W E TAYLOR, of San Francisco, read the report of the

COMMITTEE ON SURGERY

He had selected the subject of Operative Pro cedure in the Treatment of Internal Cancer He as sumed the existence of the disease called cancer in its usual acceptance, and he confined himself solely to the carcinomata, and their treatment by cutting He questioned whether modern op instruments erative surgery had not passed the bounds of pru He did not think that an operation should be performed unless with some hope of cure By this he implied a permanent recovery without further extension, and he did not accept the three-year limit or no recurrence within that period He wished to sound a note of warning—that we should pause and well consider before performing operations of this He believed that operations for internal can cer would, in the future, be less frequently done than The difficulty of an early, and even a correct diagnosis of internal cancer was extreme He cited Butlin in support of this position, that authority condemning too frequent interference He character ized the results of some of these operations as ghastly-in one series, a total of 364 operations and The necessity of diagnosis was dwelt on and instances of "cancer" cured by appropriate treatment mentioned in this connection The splendid results achieved in abdominal surgery encouraged these operations, but there was no com parison between operations for benign and malignant Complete removal in the one case was cure, in the other only a hope of ultimate recovery In non-malignant disease, where life is threatened or great suffering is undergone, the surgeon is justified in operating ease, it was unwise and unsurgical to use these facts as arguments in favor of operation advances in operative technique had been made, the clinical fact remained that a cure was impossible until a specific remedy was found

DR T W HUNTINGTON, of Sacramento, in open-

standpoint from that adopted by the author was glad that a halt had been called to indiscriminate operations upon neoplasms, regardless of their end It was true that some brilliant results had been obthe operations in all instances were justifiable lawgivers of surgery had not always proved to be previous experience surgeons He believed that the ambitious operator, seeking the greatest good of the greatest number, to the human race for the work he had done of great service to the Society and to the profession

a variable period of time had returned that it is simply an error of diagnosis We may put | Four years ago he had removed a breast off the evil day, but there is no such thing as cure ease was well advanced

DR L C Lane, of San Francisco, disagreed with moved The patient is now perfectly well had cured it a number of times by operation November 1876, he had operated 88 times calculate that one-fifth were living trouble is at first purely local, and therefore curable of pain and prolongation of life happens that cases are not seen until too late It completely remove the diseased structures was easy to talk and to give one's personal experithere could be no doubt as to the nature of the dis-In what might be termed a "cancer family" -the father and mother died of cancer, they were not operated on-a daughter had an unmistakable that other surgeons shared this feeling cancer of the mammary gland An operation was the disease Her breast was removed five years ago operation had been performed early A patient, deed of their diagnoses is invariably made followed this rule

subject could not have been reviewed from a different ence warranted operations on deep structures, as in He cancer of the uterus?

I believe I was the first to perform DR LANE that operation in the United States Nearly all the cases were seen too late They had been cauterized tained, and it had been claimed in consequence that and portions of the neck had been removed in every It case except two I believe the operation is justifiahad been said that the lawgivers of art were not ble if we could get the case in time, but I should always artists, and he was torced to admit that the carefully select my case and would be guided by

DR W F McNurr, of San Francisco, said the statistics of removal of the uterus for malignant dishad field enough and opportunity sufficient in which ease are much better in Europe than in this country to achieve honor and the greatest amount of service | Martin has had marvellous results—his cures being He wished to thank the author about forty per cent The secret of this is early di-He believed it would be agnosis, for which the microscope is relied on did not think that an American surgeon could be DR E B Robertson, of Jackson, had operated found who would operate on this evidence alone in several cases of malignant disease In each case Enlargement, hæmorrhage, pain, and all the physithe growth had been successfully removed, but after cal symptoms were deemed necessary Then when He there- an operation is performed the patient dies fore believed that where we are fortunate in one case | speaker had operated on a patient for cancer of the and the patient recovers and continues to do well, | lip thirteen years ago, and he is now perfectly well All the glands were re-Professor Taylor in the view which he had taken of thought that more attention should be given to early the incurability of cancer He was entirely satisfied diagnosis, and by that means we could expect to rethat cancer was curable, and he was satisfied that he lieve more of our patients, and fully justify the op-Since | eration

DR J D ARNOLD, of San Francisco, said that number of the cases had been kept under observa- where the individual experience of surgeons would Many of them had died, but he could safely put them either on the radical or conservative side The great of the question, he believed that the true pathology trouble was that the cases were not seen sufficiently of the disease should be made the touch-stone for From observation and study he was con- operation If the surgeon believed the disease to be vinced that in a very large number of cases the systemic, operation was only justifiable for the relief If, however, he There was a great prejudice against believed that cancer was a purely local disease, and operation from the dissemination of the notion that | could become systemic through actual extension, his the knife will not cure the disease, and it frequently decision would depend on whether or not he could

DR CHARLOTTE B BROWN, of San Francisco, He would, however, select one case, to show thought that the refusal to operate often exercised a disastrous effect upon patients by confessing the hopelessness of these cases She would operate even in the face of a large mortality, and she thought

DR C CUSHING, of San Francisco, said that his performed on her nine years ago She is, and has personal experience was limited to malignant diseases remained well ever since A granddaughter also had affecting the uterus He agreed with Dr Arnold as to the main principle which should underlie opera-There has been no recurrence In these cases the tive procedure In cancer of the uterus there were only two conditions which warranted active interwho had been operated on twenty-five years ago for ference One is that the disease shall be limited to mammary cancer, and in whom the other breast was the uterus not affecting the surrounding tissues The subsequently removed, is still living. With these other is where the disease has extended sufficiently facts before him he was compelled to disagree with to produce an amount of hæmorrhage and discharge, Billroth states that he has cured one- which seriously impairs the comfort and immediate third of his cases, and Germans are very careful in- health of the patient Cases in which the surround-A microscopic examination ing tissues are involved, but without serious dis-Personally he had always charge, are not proper cases for operation When the uterus was fixed it was unwarrantable to remove DR HUNTINGTON inquired if the speaker's exper it In the first place, it involved the danger of immediate death The only possible justification for surgical interference is to gratify the woman in making her think that something is being done, and thus keeping her out of the hands of the quacks lieved that these two propositions were sound portion of the growth should be subjected to micro-If this proved that it was canscopic examination cerous, an operation was justified under the limitations that he had laid down believed that interference was not warranted

DR J ROSENSTIRN, of San Francisco, believed that the position as to the advisability of removing internal cancer in strict opposition to the removal of external cancer was an erroneous one Why should we believe that cancer of the uterus would be more liable to affect the organism than diseases of the mammary gland? The real secret of success was early operation, and we should endeavor, where we can make a positive diagnosis, to have our patients Extirpation of the larynx had submit to operation been mentioned, and it was true that in the statistics quoted by Dr Taylor there was an alarming mortality, but if we look to the statistics of one operator, Eugene Hahn, we find that he has only two deaths following fifteen operations Of these, two are now well - one seven and the other three years Without advocating operation, he after operation thought that we ought to endeavor to improve our We could not cure cancer, but we were certainly able, in many instances, to relieve intolerable suffering, and to prolong life with freedom from pain for many months

DR TAYLOR, in replying, said that he did not wish to be regarded as considering these operations un-His object had been to call attention to indiscriminate operations for internal cancer, simply because consent was given, and because the patient Operations on properly may survive the operation Notwithstanding selected cases were justifiable what had been said he felt that true cancer involving an internal organ, was not curable by operation He did not consider that operations for external can-They were justifiable in cer were unjustifiable many cases, with a view to both physical and mental He questioned whether a microscopical examination was always correct, and doubted the competency of many in the use of this instrument vestigators often found what they expected to find The object of his paper was to call attention to indiscriminate operations, to ask for a reconsideration of the subject and greater care in the selection of cases

SECOND DAY-I HURSDAY, APRIL 19

MORNING SESSION

DR I E OATMAN, of Sacramento, read the report of the Committee on Diseases of Women He wished to notice particularly the subject of

ECLAMPSIA

While albuminuria invariably accompanied eclampsia, its etiology was uncertain He believed that if solitary confinement

In the next, there was no such thing | pregnant women would place themselves under the care of a competent physician during gestation, ec lampsia could in every case be averted If convul sions appeared, they could be combated by narcotics. but these required to be continued in full doses to maintain the effect In veratrum viride, in 10 M. doses, an efficient remedy existed Early and rapid delivery, under an anæsthetic if necessary, was indi cated Treatment should be continued after delivery Outside of these, he to maintain that degree of relaxation in which con-He included in his paper in vulsions never occur fantile convulsions during severe fever or from injury and gastric disturbance. In these cases treatment must be directed to the removal of the cause

DR WASHINGTON AYER, of San Francisco, in the report on Public Hygiene and State Medicine, di rected the attention of the Society to the subject of

EXPERT TESTIMONY IN CASES WHERE MENTAL DISEASE IS ADVANCED AS A PLEA OF DEFENSE

The course pursued by the courts, where such pleas as emotional insanity are advanced, is nothing but a hippodrome of justice, and by this means the testimony is made to appeal so much to the sympa thy of the jury that the ends of justice are more fre In addition to quently defeated than served by it this, it is an inducement for depraved persons to commit crime in the hope that such a plea will be The expert, although treated with cour advanced tesy while on the stand, is hampered by hypothetical questions, to which he is only allowed to answer yes or no, thus the jury is completely puzzled, while at the same time the value of the testimony, as an aid to arrive at a just verdict, is greatly impaired avoid such manifest injustice the defendant, in cases where such a plea has been advanced, should be ex amined by an expert committee of three, appointed for this purpose by the Governor of the State, whose report should constitute the only expert testimony in Dr Ayer also urged the separation of in sane criminals from other insane patients, either by providing a distinct asylum or by segregating them into different wards

DR W P GIBBONS, of Alameda, inquired the number of insane who had been sent to the asylums from the State prisons, and whether they were liber ated at the discretion of the authorities at the asy

When a criminal lums? DR GROVER, of Berkeley, said is deemed insane by the legally constituted commis sion connected with the State prisons, consisting of the warden, captain of the guard and a physician, When the authorities they are sent to the asylum at the asylum deem them to be sufficiently sane, they return them to the prison to serve out their term This subject has been frequently agitated, and has always been one of great importance Criminal insane are sent to the State prisons for murder have several of them in my mind who were no more insane than any person in this room time that I was at Folsom several were sent to Napa We had to send them, because we had no place to put them, unless they were kept in The subject of expert tests

mony is of the greatest importance The medical witness was frequently not examimined or given an opportunity to explain He was asked hypothetical cific effects questions, and required to answer yes or no could therefore be seen how valueless and misleading this class of evidence frequently was

DR J W ROBERTSON, of Napa, urged the importance of this question The criminal insane received at Napa were not segregated, as the institution was overcrowded There was no difficulty for a criminal to escape, if he had sense enough to do so deprecated the practice which existed of sending criminals to the asylums without the regular commitment, as they were thus in perfect ignorance of the cause of insanity or of its form

following resolution, which was adopted

Resolved, That this Society especially endorses that portion of Dr Ayer's paper referring to expert | no opium was used testimony, and that it oe referred to the Committee on Medical Legislation, with a request that they take active steps to have it incorporated in the laws of the State

AFTERNOON SESSION

The Committee on Organization of County and District Societies reported that during the year two societies had been organized the Sonoma County Medical Society, March 5, 1887, and the Napa County Medical Society, on December 5, 1887

The effort to establish a quarantine station at San Francisco was unanimously endorsed, and the representatives of the State in Congress telegraphed to

that effect

S Whitwell

The following were elected

OFFICERS FOR THE ENSUING YEAR

President-James Simpson First Vice President-Walter Lindley Second Vice-President-W J G Dawson Third Vice-President-W A Briggs Fourth Vice-President-J E S Baker Secretary-W Watt Kerr First Assistant Secretary-L M F Wanzer Second Assistant Secretary—H M Sherman Treasurer—G C Simmons

Board of Censors-G J FitzGibbon, C C Valle, S F Long, H W Dodge, E W King Board of Examiners-R H Plummer, C H Steele, C E Blake, C E Farnum, Jules Simon, W

EVENING SESSION

The report of the Committee on Diseases of Children was read by DR H M SHERMAN, of San Francisco He said that

ENTERO COLITIS OF CHILDREN

became prevalent when the minimum daily temperature is above 60° \(\Gamma\) Bacteria thrive in this condiof which tyrotoxicon has been chiefly studied

indigestion takes place, bacteria find a favorable culture medium, develop rapidly, and produce their spe-In accordance with these views, the It modern treatment has been modified followed by antiseptics, such as bismuth, salicylate, naphthaline, resorcin, nitrate of silver and bichloride of mercury, are the remedies most in favor

DR HENRY GIBBONS, JR, of San Francisco Summer diarrhœa is a disease which is almost unknown in this city We have diarrhoea, but nothing to compare with the summer diarrhoea of the East He inquired if, in the treatment of these cases with naphthaline and sodium salicylate, no other treatment is used in connection therewith? Is it to be understood that no opium is used, but that the treat-DR WALTER LINDLEY, of Los Angeles, moved the ment is conducted solely with one or other of these

In the case reported by Dr Holt, Dr Sherman

Without any knowledge of the DR GIBBONS probable bacterial origin of the disease, the older physicians were accustomed to use calomel initial treatment was, as has been mentioned in this paper, the exhibition of a dose of castor-oil, in order to remove the decomposing materials on which the disease depended This is the treatment specially advised by West In such cases both calomel and hydrargyrum cum creta were also used extensively for a like purpose, not only for the initial purpose of removing the defective secretions, but for the purpose of a continued treatment It seems, at the present day, that the older physicians had a little more practical knowledge of the value of some drugs than those of a later period supposed they had, for you will remember at one time calomel and similar preparations were almost tabooed Now it is discovered that they are germicides, and probably accomplish a great deal of good on that account, if we believe in the efficacy of the bacteria in the production of sum-The older physicians were also accusmer diarrhœa tomed to use creasote, which is of some value. It has been long my practice in the treatment of diseases of this character to commence with a dose of hydrargyrum cum creta, or calomel, often guarded, as the expression used to be used, with a certain amount of opium, and one dose will sometimes be sufficient to practically cure a severe attack of diarrhea I must confess that I have not arrived at a conclusion which would make me willing to discard opium in the treatment of these diseases Long ago I learned the efficacy or bismuth and opium in the treatment of children and adults, and have found it an excellent combination

DR J A ANDERSON, of San Francisco, would not attempt for a moment to criticise the paper that had been presented, were it not that it seemed to incul cate the idea of treating these diseases by the antisentic method alone That the diarrheea is occasioned by bacteria all will admit, but there are cases when the ptomaines and bacteria in the system have brought tion, and produce various poisons—the ptomaines, about a train of symptoms which the mere adminis The tration of germicides will not remove A child propagation of these bacteria is hindered by the an- whose temperature has run up to 104° or 105° I tiseptic properties of the gastric juice and bile, but if with cholera infantum may be filled up with germi-

cides, but unless you lower that temperature, your solely to antiseptics, it was stated by Holt that these removing the germs will not relieve the child Place were the only remedies used the patient in a cold bath, and lower the temper- of the case should be met either by sedatives or stimature as the doctor suggests, and also give opium ulants which decreases the secretions, and thus takes away sedative dose of morphia, or a stimulative dose of the food of the bacilli, and you will have greatly alcohol, or digitalis, or nux vomica, but the main aided your antiseptic treatment. The speaker said treatment was by antiseptics, and these others were he practiced south of Market Street, and saw true subsidiary and auxiliary cases of cholera infantum He recommended the use of the cold water bath, and especially opium

see that the general practitioner had at present a sufficient justification for abandoning older methods, and basing his practice exclusively upon the theory Until the battle between the microof bacteriology cocci and the ptomaines shall have been settled, until something more definite is ascertained, by which we can go to the bedside with more assurance and confidence, we will have to abide by the older methods Another point which struck him as worthy of note was that the preceding dose of castor oil is in many cases sufficient to cure a case of itself There seemed to be a direct conflict in the practice followed dose was given to clear out the bacteria, and then a dose of opium to lock up the bowels, and retain them In his practice, in many cases, during the hot in bed after extraction season and the fruit season, of children with a temperature of 103° to 105° b, the administration of 4 grains of calomel and a little sugar would often find the child on the next morning minus its temperature, plus an appetite, and virtually well

DR G F G MORGAN, of San Francisco, said that if the diseases mentioned by Dr Sherman were due to bacteria, we might hope to destroy their activity by the free use of alkalies He had understood Dr Rosenstirn, last evening, as stating that modern investigation had shown that bacteria did not thrive in alkaline media, if so, the employment of

alkalies was logical

Only those rem-DR SHERMAN, in replying, said edies which had been advised in the last year or so The older methods were considered in his report West, in his administration of were left untouched castor oil for the diarrhœa of children, gave it in connection with opium in very small doses, but frequently Its effect never was to clean out the bow-The speaker used it very often It always soothed the intestines, and gradually checked the Calomel is known to be a germicide Bismuth is also acknowledged to be a germicide, and is used in surgery for wound dressing, the wounds being douched during the operation with water in which bismuth is suspended Oxide of zinc is used in the summer diarrhœa of children, especially for its It has also been used as a control over vomiting One class of remedies much used, are the astringents, gallic and tannic acid, tincture wound dressing of catechu and tincture of kino But if we reantiseptics is at first a little puzzling member that they have the property of forming insoluble salts with some alkalies, it is quite possible that they may form such salts with the alkaloidal In regard to whether the treatment should be limited dure, excepting, of course, cases of ozæna

The true indications There is no doubt about the efficiency of a

DR GEO C PARDEE, of San Francisco, read the report of the Committee on Ophthalmology, Olology, DR GFO CHISMORE, of San Francisco, did not Laryngology and Rhinoscopy, giving an extensive re sume of the recent progress in these branches Among the subjects touched upon were the treatment of corneal ulcers by the galvano caustic and by corrosive sublimate, conjunctival blenorrhea and its prophylactic treatment, the occasions requiring eru cleation of injured and blind eyes, the cure of chorea, epilepsy, and other nervous troubles by correc tion of errors of refraction and accommodation, the treatment of glaucoma without operation, by eserine and pilocarpine, the treatment of choroiditis pigmentosa by electricity He mentioned the return to Daviel's operation, the irrigation of the antenor chamber and the use of antiseptics in cataract operations, and the abandonment of bandages and rest

DR A P WHITTELL, of San Francisco, wished to direct special attention to one subject mentioned in the report-blennorrhea at birth. It is something that must interest the profession in general, when we consider how much blindness is due to this one single cause It is in the power of almost every one attending a woman in confinement to prevent this sad result When it does supervene, by proper treatment total blindness will never occur, although Vision with one eye is the vision may be impaired To run the risk of losing a better than none at all good eye by temporizing with an eye which has been hopelessly injured, and already lost to sight, was, he

thought, exceedingly bad practice

DR J D ARNOLD, of San Francisco, wished to draw attention to one or two little points in rhinol-Dr Pardee adverted to the fact that a num ber of obscure reflex symptoms have been properly of late ascribed to some irritation in the nose, but he did not refer to the fact that a number of cases of asthma had been reported as thoroughly cured by cauterization of the hypertrophic tissues on the tur-Voltilini discovered that nasal polybinated bones pus was frequently the direct cause of attacks of asthma, and merely by accident he found in his first case that by removing the polypi an end was put to Since then it has been disthe attacks of asthma covered that not only the removal of the polypi, but the destruction of all the hypertrophic tissues in the nose will produce the same result, and that it will, in a great majority of cases, effect a cure He would have liked to have heard Dr Pardee refer more fully to the beneficial effect, which the introduction of the use of the galvano cautery has had in the treatment of catarrhal diseases, which drive so many patients into the hands of the charlatan, and which are in the majority of cases absolutely curable by this procethat when we consider the amount of blindness nurses and those having charge of infants experience, milder astringents than the nitrate of silver had been sufficient, and he thought that some or the clothing

DR H D ROBERTSON, of Yreka, said that in the country the general practitioner was sometimes com pelled to operate upon the eye, when the occasion was urgent and the patient too poor to obtain the services of an oculist He had recently met with a peculiar case The patient was a Kanaka, with double cataract He made the preliminary incision on the right eye, and gently grasped the iris, when, to his surprise, that structure came away in its en-When operating upon the left eye he was still more cautious, and grasped the iris with the greatest care, making no perceptible traction, but it also came away He had watched the subsequent progress of the case, and with this exception it had been most satisfactory On careful inquiry, he ascertained that there was no history of leprosy, but that the subject had had tertiary manifestations of syphilis

DR WM ELLERY BRIGGS, of Sacramento, had noticed the extremes to which some oculists have patient liberty in moving about was totally blind, and where a foreign body was probably present He recalled two patients who to enucleation, though advised to do so The other, having gone into the country for two days when ordered to remain under observation, returned with sympathetic ophthalmia and after brief treatment went to other oculists, but is now an inmate of the or to the Pacific coast asylum for the blind He often enucleated eyes use as an organ of vision When the physician is cure them gone the surgeon is justified in removing the eye, if there is a possibility of sympathetic ophthalmia

DR PARDEE, in replying, said that he would certainly enucleate an eye when there was any danger of its affecting the other eye He was also in favor of enucleating when vision had been lost

(To be concluded)

CHICAGO MEDICAL SOCIETY

Stated Meeting, January 3, 1888 THE PRESIDENT, W T BELFIELD, M D, IN THE CHAIR

DR HENRY GRADLE read a paper on MORBID NASAL IRRITABILITY Morbid nasal irritability, or irritable nose, is a con-

DR J H STALLARD, of San Francisco, believed dition of morbid sensibility of the nasal surfaces associated with hypertrophy of the submucous cavernous caused by the neglect of ophthalmia neonatorum, it issue The condition has been inadequately de would be judicious to issue simple instructions to scribed, and is confounded in textbooks mostly with In his chronic catarrh The best account of it is in Mackenzie's article on neurosis of the nose, in the "Reference Handbook of Medical Sciences " Most writers who simple remedy might safely be placed in the hands have described it in the periodical literature consider The use of these remedies should be it principally in view of the distant reflexes to which just as much a part of the first dressing as the bath it gives rise. The local reflexes form the basis of the present paper

There is first, the vascular reflex. The vascular or cavernous tissue normally developed to a slight extent at the front and rear end of the inferior turbinated bone, is enlarged and augmented, and may appear also on the side of the septum, on the floor of the nose and on the front end of the middle turbinated bone Through any irritation by dust or chilling of the surface this vascular plexus becomes engorged and if well developed in proportion to the size of the nasal cavity it obstructs the passage is the temporary or fleeting character of the obstruction which characterizes the irritable nose, not any permanent narrowing of the passage Almost invariably engorgement occurs on one side at a time and then may jump over to the other

Dependent upon this vascular dilatation is the second reflex, namely, sneezing This may attain such a degree as to annoy the patient steadily With the sneezing there occurs a third reflex, namely, cogone in doing away with bandages, and giving the pious secretion of clear mucous, indicating the ab-In regard to sence of any inflammatory condition This irritable enucleating eyes, having had sad experience in sev- nose may lead to reflexes in distant regions as to eral cases he now advised enucleation when the eye the eyes, ears, throat or nervous system at large The irritable nose may be a symptom of some other nasal disease such as catarrh or the presence of had lost their eyes, one of whom would not submit polypi, it can also be caused by large irritated ton-But in many cases it exists by itself without any other primary disease to which it could be traced It is very much influenced by the climate and patients can get relief by going to the mountains of the West

In the treatment any traceable causes such as tanwhich appeared well, but he did not think that he gible diseases of the tonsils should first be removed had ever enucleated an eye which would be of any Quinine relieves the attacks but probably does not No other drugs have seemed to the writer to be be of any service. Where the condition is not symptomatic of another disease of the nose the only cure is the destruction of the cavernous tissue by the galvano cautery, or in milder cases, by The latter agent is not as reliable as chromic acid the former A cure is possible whenever the extent of hypertrophied cavernous tissue is circumscribed, while where it is very diffuse, relief, but not an absolute cure can be promised

DR N S DAVIS, JR, reported a case of

RUPTURE OF AN AORTIC VALVE

From the appearance of the specimen I exhibit a diagnosis cannot be made with certainty, but from the history of the case, together with the appearance of the valves, it seems probable that sudden rupture in one of them has taken place

The history is as follows On the 17th of Novem-

ber the patient entered Mercy Hospital plained of illness for about four months, prior to that time he had been in good health Some years ago his hearing began to fail and he lost his employ- edge is considerably thickened and somewhat round ment as switchman on a railroad on that account After that he continued to work as a day laborer Four months previous to entering the hospital he roughened by verrucosities or otherwise. The part was carrying a heavy load of coal upstairs when suddenly he felt something give way in his left side, he experienced considerable dyspnæa at once, and symptoms of cardiac insufficiency date from that should be attached to the aorta. If rupture took At first the dyspnoa was noticeable chiefly on walking or on making rapid movements, but it was sufficient to necessitate his giving up all work The dyspnœa increased steadily and he became very markedly anomic, and in addition exhibited signs of general cedema At the time he entered the hospital there was evidently fluid in the abdominal cavity as well as extensive anasarca of the extremities was feeble and so short of breath that he was unable to lie with any degree of comfort, but had constantly to sit, and slept in this position. The pulse was exceedingly feeble, the heart movements very rapid

My father saw the patient the day after he entered the hospital and examined him before the clinical At that time his condition was a follows In addition to the dyspnæa, ædema and anæmia, a collection of fluid was found in one of the pleural cavi-The lungs were evidently cedematous There was probably chronic venous congestion of their The movement of the lower and posterior portion heart was considerably more rapid than normal, its action was feeble, the cardiac sounds were distant and it was suggested that probably there was some In addition there was fluid in the pericardial sac present over both the mitral and aortic areas a regur-The area of cardiac dulness was gitant murmur It was supposed greatly increased in all directions that the heart was greatly dilated and that regurgitation occurred in connection with a lesion of the There was no prior history of rheumatic valves trouble in the case It was noticed that the liver was considerably enlarged A little later in the same day the house physician noticed that the patient was sleeping almost constantly, and that the heart's action was very much more feeble and that the respiratory motions were only eleven to the minute arousing the patient the respiratory movements im-On the following morning the proved somewhat patient was more drowsy, stupid and sleepy In the afternoon of that day he exclaimed suddenly that he felt faint, and with a gasp or two was dead

The post-mortem was made by Dr Frank Andrews He found a small amount of liquid in one pleural The lungs were ædematous and quite firm in the lower and posterior parts from chronic venous The liver was enlarged, unusually hard and full of blood, the spleen normal, the left kidney normal, the right kidney had a slightly adherent cap-In the peri-The heart was greatly enlarged cardial sac there was an ounce and a half of fluid sule The heart on section was found to be very much di-The walls, as you see, are not thickened On the making traction on the string outside, it would have lated-both the left and right ventricles were dilated

He com- right side the valves appear normal, on the left side the mitral valves are normal but the aortic valves are seen to be thickened, especially one of them, whose Nowhere is ulceration or destruction of tissue from that cause to be seen. The valves are not of the valve where there is loss of continuity is also The break in continuity, here slightly thickened seen, occurs in the edge of the valve just where it place necessarily it took place four months before the death of the patient, and naturally thickening of the torn edges might occur There is also present in the aorta above the valves small areas of thickening and hardening, evidence of long prior inflammation of its Taking into consideration both the morbid lining appearances and the history of the case, it is most probable that four months before death, at the time from which the patient uniformly dated his trouble, a rupture of the aortic valve occurred The valve had prior to this been enfeebled by the changes that had occurred in it incident to an extension to the valves of older endarteritis

DR NORVAL PIERCE reported a case of OPERATION FOR HÆMOTHORAY

(See page 582)

There are some points DR A E HOADLEY about the case of hæmothorax that occurred to me while the history was being read, that I should like to refer to I should conclude from the history, that some large vessel was wounded—that would be the inference as the exsangumation of the patient was rapid and extreme, and I should also conclude that if that vessel was in the lung that there must have I do not see how it been expectoration of blood could have been avoided if the blade of the knife penetrated the lung sufficiently to wound a large ves sel-therefore I exclude wounding of the lung In the situation of that wound, immediately beneath the chest-wall, is the internal mammary artery, a The intercostal was suggested, good sized vessel but these are given off from the internal mammary, and in that situation are small, and could not ex sanguinate a patient so rapidly and so completely as this patient was in so short a time, so I conclude that the internal mammary artery was the one di Then again, it seems to me, that it would have been good practice to have endeavored to se cure that vessel, there was a straight cut through the intercostal muscles, and I think some kind of forceps could have been introduced with a view of compressing the divided ends of the internal mam mary artery After the thoracic cavity was full of blood no harm could have come from the introduction of the instrument designed to compress the divided ends of the artery by the admission of air, provided it had been done antiseptically. I think the hæmorrhage could have been controlled by in troducing a button into the wound, such a one as would go through the wound with a string attached to it, pushing it into the thoracic cavity, and then by

closed the bleeding vessels This accomplished the it certain they were taken at one time subsequent treatment would have been more satis-As far as the tolerance of the pleural cavity of blood is concerned, there is no difference be tween the two cavities, abdominal and thoracic The one can tolerate the presence of blood as well as the other, the one can absorb as large a quantity of blood as the other, they are both serous membranes, identical in character and powers of absorption

The case given is very interesting and certainly very remarkable I was very much interested in the The patient evidently has good vitality

to stand such a strain

I have nothing special to say in Dr Pierce closing the discussion Of course I might now do a great many things that I did not do at that time But the man was in such an extremely low condition that anything more would have been out of place Dr Fenger was not sure that it was the internal mammary artery The wound was a slight distance out of its course, about half an inch Indeed, the week, is against this as the source The position of the scar has changed with the sinking in of the chest

As regards the clot being removed, blood does not necessarily clot in the pleural cavity at all, but may

remain fluid indefinitely

DR W T BELFIELD exhibited a specimen of MUSCLE INFILTRATED WITH TRICHINÆ

It was a piece of gastrocnemius muscle from the amputated leg of a man now in the Cook County Some eighteen years ago this man, then a resident of New York, in company with a number of other individuals ate of some poorly cooked ham and sausage, nearly all of those who partook of this article of diet became very ill within a week, and a two months, and did not entirely recover his health for some four months In consequence of the curcumstances surrounding the case the difficulty was recognized as trichiniasis, and an examination of the muscles of those who died confirmed the diagnosis This man recovered, and during the succeeding 18 years has enjoyed good health, except that he has at various times, and more particularly during the last six or eight years, suffered from rheumatism in different parts of the body

This muscle, like all the other muscles of the amputated leg, is thickly studded with trichinæ he little white specks very closely set These are nown in the microscope to be triching iscle taken from all parts of the amputated leg are d as thickly set with the parasites as is this piece, d masmuch as these parasites are more numerous nber of trichine this man contains in his body s up into the millions Of course it is not un nal to find muscles studded with trichinæ in indi-

Very few individuals recover who swallow so many at one time as to produce so numerous a progeny are in the habit of taking uncooked pork can at different times take a few trichinæ without at any one time suffering from the invasion of so large a number as to produce the acute symptoms of trichiniasis

The amputation was for disease in the knee joint, and had nothing to do with the condition of the

muscles

CHICAGO MEDICO-LEGAL SOCIETY Meeting of March 3, 1888

E J DOERING, M D, PRESIDENT (Concluded from page 571)

Conclusion of the discussion on DR ETHERIDGE'S paper on

THE MEDICO-LEGAL ASPECT OF UTTERANCES MADE IN MEDICAL SOCIETIES

Dr Clark Gapin I must say I am pleased tocharacter of the hæmorrhage, at least after the first hear this subject presented so ably on both sides I think if the utterances on one side could be taken to the courts, the utterances on the other would certainly very neatly and effectually neutralize them, so I think, as far as this society is concerned, it has acquitted itself well in that respect. The subject is certainly an important one Only a short time since I was consulted and retained to defend a case of malpractice in which this was the charge I do not know that any case has been actually tried, but in this case the charge was made, the suit brought, and physicians assured the gentleman that he had a good case, that the literature of the subject, and the profession were with him The case went so far as to be brought up in the courts, but was abandoned, the medical gentlemen who proposed to support him large percentage died This man was very ill for having failed to make their appearance and sustain him during the trial That case impressed me with the fact that if we are not immediately upon this subject, in the law, we are very close to it I had occasion to go over the subject preparatory to that trial, and I have made up my mind to this, that the great discovery of antisepsis, or what we might call therapeutic cleanliness, has come and has come to I do not imagine, however, that it will remain in any very violent form, I think it will finally settle down to about what has taken place in other departments of the law, that what will be required of the practitioner in this respect will be the same that taking a fresh cut surface near the light you can see is required of him in surgery or the administration of medicines, ordinary care and diligence, and ordi-Pieces of nary skill in view of the knowledge of the profession at or within a reasonable time of the date of the occurrence of the supposed injury

Dr Ethendge, it seems to me, somewhat overrates the trunk than in the limbs, we may infer that the the importance of these utterances in societies No court in which I have practiced will admit, as evi dence, the transactions of a society, or surgical or duals who have been in the habit of partaking of which it is done, I think the courts of Iowa have adraw sausage or half cooked pork, but it is rare to mitted medical or surgical treamses, as evidence, but find them so thickly placed where the history makes I think it is not done in the courts of the State of

Illinois, and I know the same is true of the courts of clots in the womb of the case in question, although all Wisconsin any of these utterances will find their way into the courts, but I think there are members of the pro fession who are so positive in their belief of the necessity of this antisepsis, or therapeutic cleanliness, you may call it what you will, that if brought to the witness stand they will express their convictions in such a way as to convince a jury that somebody has not exercised ordinary care and diligence medicine and surgery there is no ideal perfection and little that is absolutely sure, but I will say that my own experience as a physician has been very favorable to antiseptic treatment of the puerperal state, and if called upon the witness stand I should be compelled to say that one who had been careless with regard to the cleanliness of the patient had not done his whole duty by his patient I think that what we should begin to do at once is to impress! upon the profession at large—especially upon the careless members of the profession, that sooner or later they will have devolve upon them this responsibility, and that it may assume a financial aspect that while Dr Etheridge's view is quite correct there is a word beyond, and although the profession possibly is not to-day in a position to condem a man for want of this care, it is coming to that We may pass antisepsis by as one of those fitful fevers of discovery which we have passed through before, but I take it that the antiseptic theory is one of the greatest discoveries of all ages, and that it will take its place beside those great discoveries which have The danger in the particular great a hurry come and remained respect under discussion is not so much from the literature on the subject as from the belief of the is of the character of the governor to a steam enprofession that the man who neglects this therapeutic cleanliness does not do his whole duty by his patient

DR L L McArthur Although one of the younger men, I have the tementy to use to this question, and trust that it will not be imputed to simply the enthusiasm of youth leading me to jump at the new, and abandon the old, that I accept what to my mind appears definitely proven Dr Etheridge in referring to old theories that have been abandoned, and new ones which have taken their place, spoke in rather a scoffing way, in the way of decrying them, that any progress which we seem to have made is not progress, but only the adoption of lustration of how this thing is working in the public the new for the old! He makes reference to the fact that fermentations were formerly supposed to be due to oxygen, then the last theory that the yeast plant was the cause of that fermentation He cannot but admit that alcohol is the result of the life history of the yeast plant, that whenever the yeast plant is placed in dilute sugary solution, we always get alcohol, it is a positive demonstration not theory From the yeast plant we get alcohol, we no not expect to get "scarlet fever" If the vinegar plant is put into sugary solutions we do not expect to get alcohol

The microorganism of puerperal fever may not have been discovered, but that some microorganism is present, even Dr Parkes admitted, in saying that the case had died from some decomposition of the Clinical Medicine in Leipzig

For that reason I think it is doubtful if infectious material had been kept from without! He practically admits this decomposition was from the influence of microorganisms, and that without them we can have no decomposition This has been demonstrated hundreds and thousands of times through the influence of the cotton plug in the gelatin culture If we seal up tin cans with fruit in them so that the microorganisms are killed, the fruit remains without decomposition And so with the microorganisms which may be in the vagina, and we all admit that there are plenty of them there, they may induce suppuration, and it is probable that suppuration goes on after every labor, as these white milky discharges contain microorganisms. If we admit a specific action for the larger microorganisms it is reasonable to admit the same for the smaller To prove these points and advance science the proper way is not by deriding them, but to take up the subject oneself and work at it All the ad vance that has been made in the whole theory of bacteriology has been made by the German, French and English Nations, Bastian and Pasteur making their advances in fighting each others theories Having theories to begin with they endeavored to demonstrate them, and finally came around to fall into the same line, as the result of their practical Without a sound foundation medically experiments we can obtain none legally And that is the way advance can be made in medicine, by investigating the theories advanced, and proving them false rather than to cry them down, saying let us not be in too Certainly conservatism is valuable, and the conservatism which Dr Etheridge advocates gine, it regulates and steadies it, but does not stop its progress

DR ETHERIDGE, in closing the discussion, said I have but little to say in conclusion, and that is this that puerperal fever is more discussed to-night than That was not the topic I have anything else nothing to say about puerperal fever, only incidentally as an illustration, and when the discussion brings out the remark that the conservatism of my paper is too conservative, I simply wish to say that everything of that kind is used as illustration

Dr Gapin came to the point when he gave an il-The Semmelweiss theory is good as far as it goes, but if we are to make a man's case in court stand or fall on the Semmelweiss theory it seems to me that we should be more accurate in our utter-If that theory is without an attackable side then the logical conclusions therefrom would be all right I am glad the subject has brought out some discussion, and I hope it may have its results in its bearing in the future upon the expressions made in these medical societies, where too much is uttered, perhaps, in the hastiness and ill consideration of youth, which would not be uttered after ten or fifteen years of practice

Professor W Leube has been appointed to the Chair of

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FROM OUR OWN CORRESPONDENT)

Treatment of Tubal Pregnancy

At the April meeting of the New York County years the associate of the late Dr Edmund R. Peaslee, read a paper on the Treatment of Tubal Preg- nancy or pus tube " nancy, in which he advocated the primary removal undertaken with the expectation of delivering the tube and its contained fœtus intact, and resorted to before the end of the fourth month of gestation a paper read by him before the American Gynæcoearly laparotomy, as a rule, in cases of tubal pregnancy in which hæmorrhage had occurred (instead of employing electricity, as was now commonly done), further hæmorrhage In December of that year he reported, at a meeting of the New York Obstetrical Society, a case in which he had diagnosed tubal pregnancy at the fifth week, and in which death had occurred at the end of the seventh week, from a second hæmorrhage resulting from a ruptured artery on the peritoneal surface of the sac, the first hæmorrhage, which was extremely small, having taken place from the same artery nine days previously, and galvanism having in the meantime been employed for the pur pose of destroying the fœtus

At that time he had become convinced, from this case and from three other similar cases, that the time to operate was when preliminary or partial rupture occurred, as evidenced by the first hæmorrhage, the primary collapse symptoms constituting an almost tions of chronic invalidism " certain indication both of the pathological condition and of the need of immediate interference speaking of the symptoms of tubal pregnancy he had

stated that he believed that it was easier to recognize this condition than hydrosalpinx, and that the presence of an irregular decidual discharge in a woman signs of pregnancy and an enlarging, fluctuating, and | inal cavity

as early as the fifth week

York Academy of Medicine in 1887, he had stated cided hæmorrhage from the sac wall

find but one case on record in which the operation was performed prior to a laceration, or partial laceration, of the tube, and before the fourth month of This was one by Dr Joseph Price, of Philadelphia, in September, 1887, reported in the Annals of Gynecology (Boston) for March, 1888, and in a recent letter to Dr Janvin concerning the case Dr Price had said "The history was simply case Dr Price had said Medical Association Dr Joseph E Janvrin, for many that of delayed bleeding two weeks and constant pain and nausea I operate for extra uterine preg-

Having referred to the cases of laparotomy in tubal by abdominal section of the tube and its contained pregnancy, after one or more decided hæmorrhages, fœtus before rupture of any portion of the tube has performed by various operators in this country and This procedure, he explained, was to be in Europe, he observed that all such operations, resorted to after there had been a rupture of some part of the tube, should be classed as secondary operations The advisability of enlarging this field, by removing the tube with its contained fœtus before any rupture logical Society in 1886 he said he had recommended has occurred, and during the early weeks of gestation, Dr Janvin said he had advocated on every possible occasion during the past year and a half Until very recently he believed that he stood almost, if not quite, for the purpose of removing all possible danger of alone as regards this point, but during the last few weeks he had found that other gynecologists also had come to the same conclusion Thus, in the American Journal of Obstetrics for April, 1888, Mr Lawson Tait said that, although he had never as yet been called upon to operate until after the sac had ruptured, if in any case met with by him there was a reasonable supposition of the existence of a tubal pregnancy which had not yet ruptured, he should recommend immediate laparotomy Drs Joseph Price and Howard A Kelly, of Philadelphia, he be heved were also in accord with this proposition a recent letter to Dr Janvrin, Dr Kelly had said "The history of fœtuses which have been destroyed by faradization has frequently been associated with protracted suffering to the mother, and with condi-

In speaking further of the bad effects sometimes In resulting from the use of electricity he quoted Dr Robert P Harris, of Philadelphia, who, in the American Journal of Obstetrics for August, 1886, had referred to several cases in which attacks of peritonitis had occurred several years subsequent to the death who had missed a period, associated with the normal of the fœtus, and due to its presence in the abdom-Mr Tait had also very recently (Amer exquisitely sensitive mass on one side of the uterus, and followed subsequently by symptoms of shock, danger of the placenta going on to develop enorcould hardly be referred to any other condition, even mously after the death of the fœtus Up to the In a case of this kind he present time, however, the weight of opinion among had also said that he would certainly perform lapar- American gynecologists was decidedly in favor of otomy whenever the first symptoms of internal hæm- destroying the fœtus by electricity in some form in Again, in a discussion at the Jan- cases in which the diagnosis has been made prior to uary meeting of the Obstetrical Section of the New the fifth month and in which there has been no dethat in any case in which, from the rational and phys- advocates of this measure stood Thomas, Lusk, Garical signs, he had become convinced that tubal preg- rigues, Munde and others, of New York, and M D nancy was present, even before symptoms of a rupture | Mann, of Buffalo, and each of these, as well as of the peritoneal covering of the tube presented them- other operators throughout the country, had had exselves, he would most earnestly urge laparotomy, and cellent results with it In the Annals of Gynecology perform it if he could obtain the consent of the pa- for February, 1888, Dr Mann had stated that Dr tient Up to the present time he had been able to Janvrin was able to find only three cases in literature,

including his own, where rupture of a vessel caused death without rupture of the sac Since the publication of his paper before the American Gynecological Society, however, he had seen one other case in which this condition was fully demonstrated at the Two other important specimens he had recently seen in cases in which abdominal section In one of these the feetus had died was performed from pressure of blood clots at about the end of the third month, and several other attacks of hemorrhage had occurred between this date and the seventh month, when the tube, fœtus, clots, etc, were In the second case, where laparotomy removed was performed at the seventh or eighth week, there was a history of slight hemorrhage from the sac wall and slight peritonitis for a week or ten days prior to its removal

In the paper referred to Dr Mann had expressed the opinion that if rupture has not occurred, electricity should take precedence of laparotomy To this proposition Dr Janvrin said that he would assent, provided no experienced laparotomist could be found to operate, but not otherwise With a capable oper ator at command he would urge abdominal section just as soon as the diagnosis had been made, and before any hæmorrhage from the sac, with its subsequent attacks of peritonitis, could take place These frequently recurring attacks of slight hæmorrhage were exceedingly dangerous to the life of the mother, and when they had occurred, and the time came when laparotomy must be performed, the patient was in bad condition for the operation, while the procedure itself was much more complicated than at an earlier period The same thing could be said in reference to waiting to perform laparotomy until serious symptoms had supervened, after the fœtus had been killed by elec-Here, too, there would be more or less adhesions to deal with, and the work to be done would be much more difficult than the removal of a simply enlarged and still unruptured tube containg the fœtus, with no products of inflammatory processes to interfere with its ready extraction

In the discussion on the paper the principal advocate of electricity, in preference to the radical operation advised by Dr Janvrin, was Dr Wm T Lusk, who said in opening that he wished he could be convinced by the arguments advanced that the time had come for the doing away with galvanism in the treatment of tubal pregnancy It would certainly be very gratifying, he went on to say, if one could always perform laparotomy as this condition was diagnosed, as the operator would thus secure an amount of eclat which was not possible when electrity was employed Destruction of the fœtus by the latter was a far less brilliant method of procedure, and when it was attended with successful results the operator was not infrequently subjected to insinuations that extrauterine pregnancy had never existed at all same time, he was so thoroughly convinced that these cases could be efficiently and safely treated by galvanism after the appearance of the characteristic colicky pains, that he did not as yet feel justified in abandoning so satisfactory a method The operation ence illustrating this point was a very simple one, requiring no special skill, so

that it could be practiced by any one, and, as a rule, the results were all that could be desired He then mentioned that he had had under observation two of his cases, occurring in private practice, for a long period of time, one of them for six years, and the other for four years At the time the first of these patients was operated on she was believed to be in a dying condition, but, after consultation with Dr Thomas, it was decided to employ electricity, and the result was entirely satisfactory. There had never been the slightest bad effect, and at the present time the mass remaining was about the size of a pigecn's In the second case the tumor was now about the size of an English walnut Since the operation the patient had given birth to a living child, and there had been no trouble whatever at the time of partu-

Now, if we had such an efficient method, which was perfectly safe in the great majority of instances, there did not seem to him to be sufficient reason for giving Even if inflammation, suppuration or ulcera tion should ensue, we could under such circumstances usually perform laparotomy with satisfactory results He was, therefore, convinced that, in the present state of our knowledge, treatment by electricity was the best mode of proceeding As to performing lap arotomy before rupture of any portion of the tube had occurred, the difficulty of diagnosis constituted a serious objection, and even Mr Tait had expressed to him his inability to make a diagnosis at this time In regard to the other five cases which he had treated with electricity Dr Lusk said that he could not speak with the same confidence as the two just mentioned The results were entirely satisfactory at the time but, as the women were hospital patients, he had not been able to follow up their subsequent history If he could feel sure that laparotomy was just as safe as electricity he should certainly be willing to join the ranks of those who advocated this procedure, but up to the present, as he had stated, he had not yet become convinced of this fact As to the danger of the growth of the placenta after the death of the fœ tus, this seemed to him to be very slight, and, indeed, he questioned very much whether such a danger really existed at all

Dr Andrew F Currier having stated that it seemed to him one of the inconsistencies of modern gynecology that operators should so frequently perform laparotomy for the relief of such conditions as hydro and pyosalpinx, and yet hesitate to do so in the graver one of tubal pregnancy, Dr Lusk replied that, in considering this matter, it was important to remem ber that while such conditions as hydro and pyosalpinx could not be removed by electricity, this was entirely possible in tubal pregnancy If, however, treatment by electricity were practicable in hydro and pyosalpina, gynecologists would hardly be likely to resort to laparotomy until electricity had first He then spoke of the imporbeen given a fair trial tance, in arriving at a correct diagnosis in many cases, of first making a thorough examination of the patient, and referred to two cases in his own exper-

Dr George T Harrison said that his experience

three cases he had certainly destroyed the life of the one of these patients two years after the operation, he had found the sack much sunken the woman had also given birth to a child in a nor Still, it was undoubtedly true that the mal manner tendency of modern gynecology was to advance in the line indicated by Dr Janvrin, and, while he was ber last not as yet quite willing to declare himself in favor of the general adoption of laparotomy in the class of cases referred to, he was free to confess that the re sults already obtained from this procedure, especially by some of the German operators, had had consider able weight in influencing him in its favor At the present time, however, it seemed to him that the experience of the profession was as yet too limited to enable us to arrive at any positive conclusions on There was one point in regard to the the subject diagnosis of tubal pregnancy as given by Dr Janvrin which he thought should perhaps be somewhat modified, and that was in regard to the extreme sensitiveness of the tumor, since he had himself observed instances in which this great tenderness did not exist

Dr A Palmer Dudley said that the all important matter in connection with this whole subject seemed to him to be the question of diagnosis, and that he should very much like to know how to make the diagnosis If this was ever established, the treatment was sufficiently easy, whether electricity or laparotomy was resorted to Under the circumstances referred to by Dr Janvrin laparotomy was a comparatively simple operation, and no more dangerous than when it was done for hydro- or pyosal-He then related a case of his own in which he had supposed tubal pregnancy to exist, but on opening the abdominal cavity he had found a parovarian cyst with displacement of the ovaries and pyosalpinx, while the fimbriated extremities of the tubes were attached in one case to the bladder, and in the other to the rectum He said that he would not hesitate to resort to laparotomy early in any instance where he was able to make out the diagnosis of tubal pregnancy, but in the case in question there was a condition other than tubal pregnancy giving rise to the simptoms described by Dr Janvrin as characteristic of the latter

Dr Dudley having stated, in reply to a question of Dr Janvrin, that he had not observed in this case an irregular decidual discharge, Dr Janvrin said that he regarded this as the most important point in the diagnosis of tubal pregnancy If the symptoms which he had mentioned, with the exception of those of shock (which were due to rupture), were noted in any case, he thought there would be no difficulty in making out the diagnosis before rupture of any portion of the tube had occurred As to Mr Tait's views on the diagnosis of tubal pregnancy before rupture, in the very last number of the American Journal of Obstetrics (April, 1888), he stated that he had never been able to make out the diagnosis at this time because he had never been consulted in

with galvanism had been very favorable. In at least by bad effects, certain cases had been reported in which there were evil results, and two such instances fœtus by means of this agency, and on examining were referred to by Dr Mann in the article in the Annals of Gynecology mentioned The German Since then cases spoken of by Dr Harrison were all secondary operations, and, as far as he was aware, the only primary operation which had as yet been performed was that of Dr Price, of Philadelphia, in Septem-

BOOK REVIEWS.

A Guide to the Practical Examination of Urine. For the Use of Physicians and Students JAMES TYSON, M.D., Professor of General Pathology and Morbid Anatomy in the University of Pennsylvania Sixth Edition, revised and cor-With a colored plate and wood engravrected ings 8vo, pp viii-253 Philadelphia P Blak-iston, Son & Co 1888 Chicago W T Keener Philadelphia P Blak-

It would be impossible to criticise this book adversely, and when a work of its kind has reached its sixth edition it is no longer in need of favorable com-The most important additions to this edition are the phenyl hydrazin hydrochlorate, alpha-naph thol, and thymol tests for sugar A good deal has been added to the edition, while at the same time much has been omitted that was in the fifth, but only what is no longer required Dr Tyson is an acknowledged authority in urology, and his book is all that can be desired

THEIRE IN THE TREATMENT OF NEURALGIA a physiological contribution to the therapeutics of By Thomas J Mays, M D, Professor of Diseases of the Chest in the Philadelphia Poly-Sm 8vo, p v11–84 clinic, etc Philadelphia P Chicago W T Blakiston, Son & Co 1888 Keener

This little book, a reprint of a contribution to the Polyclinic, from September, 1887, to February, 1888, contains five chapters and an appendix, devoted to an introduction, the physiological action of theme, the special therapeutic indications for the use of the ine, neuralgia, and, in the appendix, remarks made by Dr Charles K Mills on a paper read by Dr Mays before the Philadelphia Neurological Society in December, 1887, on "Theine in Pain" As a contribution to the therapeutics of pain, from a reliable source, the little volume is well worth study

MISCELLANEOUS.

COUNTERFEIT MILL.-St Louis Republican 1 few days since a person representing himself to be the agent of an Iowa dairy farm called at the business office of R Gortner & Co ice cream manufacturers, at No 109 North Twelfth street, and desired to make a contract with Mr Gortner to furnish him any case until after rupture had taken place While named was low, and from this and other indications Mr Cortner became suspicious of the Iowa company's milk. He sewith the milk from which to make his ice cream

26

150

1 1

sured a sample of the milk and took it to the St. I ours Dairy Company's laboratory to be analyzed by their chemist milk was carefully analyzed, and the dairy company's chemist saw at once that there was a dangerous and unusual counter feit. It is a perfect imitation in every respect, and nothing but a chemical analysis would discover its true character. It is apparently rich and wholesome and pleasant to the taste amount and proportions of the solids that it contains are the standard test of the purity of milk. The following table give the component parts and the proportions in pure milk

AVELAGE PURE MILK

Water	S6 23
Solids	13 77
Casem	3 33
Albumin	ŏ 5ŏ
Butter	4.50
Milk sugar	4 93
Salts	o 6

The dury company's chemist's analysis of the Iowa firm's milk gives the following result

Water

I at supposed to be cottonseed oil or some similar sub-

Chemical substances corresponding to easeine and milk sugar, whose nature is not yet determined

Mmeral salt, supposed to be nitre or some other simi lar substance

Total 100 0 18 7 Percentage of solids

The difference between the Iowa company's product, and pure milk will be readily perceived by reference to the tables The chemist who made the above analysis states that he has every reason to believe the substances that in the Iowa "milk" take the place of butter fat, cascine, milk sugar, and ash are all mjurious. Exactly what these substances are the chemist is not yet prepared to say. He is now at work upon the analysis, however, and hopes to be able to determine the question in a few days

The Iowa company that is engaged in the manufacture of this spurious milk has an agent in St Louis who is busily en gaged in canvassing the restaurants, milk dealers, ice cream manufacturers, and others in the city who use large quantities of milk, and investigations have developed the fact that large quantities of the spurious product have already been sold here

A law passed a little more than a year ago fixes the standard of purity for milk in Missouri at 12 per cent of solids, including 2 S of butter fat, and of cream at 12 per cent of butter fat It will be seen that the Iowa product lacks a great deal of conforming to this standard, and for the sake of the public health it is to be hoped the proper authorities will enforce the law against the injurious counterfeit

Composition or Modie Nerve Food -Francis Wyatt, says the Medical World, has analyzed Modie with the following result One hundred parts by weight when distilled were found to contain three fourths per cent alcohol and one fourth per cent of the essential oils of sassafras, winter green and anise The residuum in the report was evaporated to dryness, and contained 7 880 per cent of extractive matter, consisting of

Sugar	3 S10
Glucose	1 250
Sodium carb	1 070
Sassafras	1 <u>8</u> 70
Gentian	1 870
Checkerberry	1 \$70
Quassia amara	1 870

PROPOSED NEW YORK LAW WITH REGARD TO THE EM BALMING OF DEAD BODIES - A bill has been introduced into the New York State Legislature which provides that "it shall not be lawful for any person or persons to introduce into or upon any dead body of any person or human being any poisonous substance, organic or morganic, for the preservation of the same, or any so called embalming fluids or materials of any kind, which will, in any manner whatsoever, interfere with chemical tests which may subsequently be applied or made use of by chemists in medico legal investigations."

INTERNATIONAL OPHTHALMOLOGICAL CONGRESS AT HEID ELBERG -The Committee announce that at this meeting, on August 9-12, 1868, discussions will be held on "G'aucoma," introduced by Priestley Smith, of Birmingham, and Snellen, of Utrecht, "Cataract," by Gayet, of Lyons, and Schweigger, of Berlin, "Bacteriology," by Leber, of Gottingen, and batt The ler, of Prague

MEDICAL Association of Georgia.—At the recent annual meeting the following officers for the ensuing year were elected President, J S Todd, Atlanta, First Vice President, J B S Holmes, Rome, Second Vice President E R Anthony, Griffin, Secretary, K P Moore, Macon, Censor, B R Doster, Blakely

SACRAMENTO SOCIETY FOR MEDICAL IMPROVEMENT — The following are the officers for the ensuing year President, J R Laine, Secretary and Treasurer, G. L. Simmons, Jr., Directors, the President and Secretary elect, W. R. Cluness, G. L. Sim mons and H L Nichols

PRACTICAL COURSES IN EMBRYOGENY—Dr Dareste, Di Si 3 rector of the Laboratory of Teratology at Paris, begin a cour e on normal and teratological embryogeny on April 10 The course, it seems, will be made permanent

NEW JOURNALS - The Bolletino della Poliambulanza di Mi lano, the Omaha Cliric, and the Journal of the N E Vir ginia Medical Society, are the latest new medical journals

MEDICAL ASSOCIATION OF ALABAMA —At the recent annual meeting Dr C M Baldridge was elected President, and Dr B F Cross junior Vice President Other officers hold over

EXPERT FEES -The Supreme Court of Texas has decided that a doctor is entitled to extra fee for testifying as an expert when summoned by the court to do so

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY FROM APRIL 28 1888, TO MAY 4 1888

By direction of the President, Surgeon Remus C Persons, U S Navy, is assigned, temporarily, to the charge of the Army and Navy General Hospital, Hot Springs, Ark, during the absence, on leave, of Major Richard S Vickery, Surgeon U S Army, Surgeon in charge S O 96, A G O, April 26, 1888

Capt A A De Loffre, Asst Surgeon, granted leave of absence for six months on surgeon's certificate of disability, with per mission to go beyond sea SO 99, AGO, April 30, 1888
First Lieut Guy L Edie, Asst Surgeon, now under orders to report for duty to the commanding officer at It Douglas, U T, will accompany the Eighth Cavalry from Dept of Texas to Dept Dak, and upon completion of this duty will proceed

to Ft Douglas S O 99, A G O, April 30, 1888

First Lieut W D McCaw, Asst Surgeon, relieved from duty

at Ft Leavenworth, Kan, and ordered for duty at Ft Craw

ford Col. S O 18 Douglas Management of the Craw

ford, Col S O 48, Dept Mo, May 1, 1888

First Lieut Ogden Rafferty, Asst Surgeon (recently appointed),
ordered for duty at Ft Clark, Texas

Capt Jno V Lauderdale, Asst Surgeon, ordered from Ft
Clark, Tex, to Ft Davis, Tex S O 98, A G O, April
28, 1888 28, 1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U S NAVY DURING THE WEEK ENDING MAY 5 1888

Medical Director W T Hord and Surgeon T Woodverton, ordered as delegates to represent the Medical Department of the New York and Department of the New York the Navy at the meeting of the American Medical Associa

tion, May S, at Cincinnati O Surgeon Geo P Bradley, ordered to Navy Yard, Brooklyn, N Y, without delay

CORRIGENDUM

In The Journal of May 5, page 547, second column, the third para graph from the bottom should read. The wound in the bowel 428 closed by a double line of 41k sutures, the first being a continuous structure including only the mucous membrane the second a continuous ture including only the mucous membrane the second a continuous ture including the peritoneal coats in apposition.

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

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CHICAGO, MAY 19, 1888

No 20

ADDRESS IN SURGERY

A SKETCH OF THE PROGESS OF SURGERY

Delivered in the Section on Surgery, at the Thirty Ninth Annual Meeting of the American Medical Association, May 10, 1888

> BY E M MOORE, MD, OF ROCHESTER N Y

From the broad field of surgery there are many lines of inquiry which might interest its devotees, if properly followed But to treat of any one of them implies special study of the new developments that now abound in the great advances in the art, and the sciences whose discoveries it employs On a former occasion, your reader occupied the same relation to you that he does at this moment He then prepared himself for the occasion by a series of experiments in corpore villi, to illustrate the subject of blood in-He believes that he had the good fortune to add a thought to knowledge on this topic It seemed to him that a general view of the relation of surgery, and the surgeon, to the community in which he lives and has lived, might be of sufficient interest to justify the spending an hour in its review This must revive well known stories, and allude to present movements familiar to all, but they contain triumphs which always stir the heart of the true surgeon Pope, in his mellifluous couplet, which has pleasantly rung in the ears of every physician from his youth up, has interpreted the views of Homer of three thousand years ago, when he sang that,

> "A wise physician, skilled our wounds to heal, Is more than armies to the public weal."

Then as now, the surgeon was most prominently connected in the public mind with the treatment of wounds of accident, or those of his own making Notwithstanding Homer's complimentary opinion, the surgeon has always found an influence that overshadowed him, until very recent times He depends on his individuality, not upon his surroundings He has no motive to promote combinations of men In his thinking he is the exponent of the natural and not the supernatural. Ever watching the development of law in nature, he is her humble devotee, and believer in her me\orable ways But the progress of his knowledge was for long ages fearfully handicapped by the supernatural Indeed, this still holds firm in many minds But lately I was urged by a loving wife to ply my best

yield to the belief that recovery would not be likely to ensue, when earnestly asked in prayer, if the right kind of medicine was used We have accounts of Egyptian medicine 1,500 years before the time of But the physician was always also a Hippocrates priest, and must ever administer his services with a prayer to Horus A divided responsibility is ever enervating Restraint was upon him everywhere He could not examine the dead, for they were to be preserved Even the potter's field received no body until a cheap method of embalming was employed The body was to be reclaimed by its owner, in a period of time varying from 3,000 to 10,000 years, according to the moral and intellectual status of the individual Of course the body should be preserved with the least possible injury During the last twenty-five years there has been in this country an enormous increase in the development of specialties in medicine, as we all very well know, partly, perhaps, due to the large increase of knowledge, and partly to the rapid growth of cities But this is only the revival of a custom which prevailed at least 4,000 The subdivisions of the profession were years ago more minute in Egypt during the rule of the Pharaohs than with us to-day I may at once disclaim any intention of giving you a history of surgery The time is inadequate, and this you can draw from many sources It has been well and carefully studied, but would be a topic too trite at this time present status of surgery has had its exposition too well brought out to leave an opportunity for any interest in its restatement I must content myself with using only a few points that may touch its growth to illustrate its relations to science in general, with some criticisms on a few subjects that have come under my personal observation But I cannot pass by a notice of the Father of Medicine in his rôle of medical philosopher The practice of medicine draws its votaries to the recognition of the uniform bearing of physical law, and away from the easy solution of difficult problems by their reference to the supernat ural. So firmly has the latter explanation been regarded as the sole one by mankind in past times, that only the clearest intellects and boldest natures would stand out to the defense of the universal supremacy The physician attacks the problems of the of law Kosmos at their most difficult point, that of the laws governing the functions of living beings necessity, and is also his misfortune, to attempt the unravelling of the intricate crossing and contest of skill in a case of Bright's disease, for she would never physiological functions whose even balance permits

the continuance of life ments of science in astronomy and chemistry are into one those two classes of phenomena—the divine solutions of simple problems compared with those of and the scientifically determinable—which the latter as its greatest triumphs in the analyses of the ele- as at once both divine and scientifically determinable ments of animal tissues The aim of the medical In discussing certain peculiar bodily disorders found philosopher is to approximate the law which he can among the Scythians he observes 'The Scythians not clearly enunciate But there are explanations of themselves ascribe the cause of this to God, and the Kosmos that may be and are properly regarded as sciences, that show the operation of laws disturbed by others, which only allow approximate statements Meteorology furnishes a good illustration of such divine, no one among them is either more divine or The general controlling movement of conditions the storm centre can be predicted But a myriad obstructing forces interfere with the exact mathemat- has its own physical condition, and not one of them ical statement which, but for their intervention, might occurs without such physical condition '" be made Medicine has abundant illustrations of law whose movement is seen and predicted but, unfortunately, obscured by intervening forces An effort of this kind would never be undertaken by a physician who commended his work to the favor of Horus The pressure of the gods was more light upon the limb Greeks than upon the Egyptians, who were their Still, the practice of the art was complicated with much appeal to Apollo and Æsculapius I have quoted in a public address in another place tion and growth of the procedure to have begun less the relation that Hippocrates bore to his contemporaries upon the universality of law cannot be excelled at the present day by the most advanced thinker, it is one that would do honor to Her- line of demarcation in gangrene, but his plan was bert Spencer It must be recollected that the Father of Medicine lived at a time when Greece was at her highest pitch of greatness He was the contemporary of Pencles and Socrates, the two most extraordinary men of antiquity In the quotation that I make from Grote, you will observe at what an absurd conclusion Socrates arrived in attempting to part phenomena from the universal operation of law very magnificent topics which awed him are our best illustrations of the principle that governs all things Grote, in speaking of the division between the natural and the supernatural, says

"Thus Socrates openly admitted it, and assigned to each a distinct and independent province distributed phenomena into two classes one wherein the connection of antecedent and consequent was invariable and ascertainable by human study, and therefore future results accessible to a well instructed foresight, the other, and those too, the most comprehensive and important, which the gods had reserved for themselves and their own unconditional agency, wherein there was no invariable or ascertainable sequence, and where the result could only be foreknown by some omen, prophecy, or other specially inspired communication from themselves Each of these classes was essentially distinct, and required to be looked at and dealt with in a manner radically incompatible with the other Socrates held it wrong , to apply the scientific interpretation to the latter, or the theological interpretation to the former and astronomy, in his opinion, belong to the divine class of phenomena, in which human research was insane, fruitless and impious "On the other hand, Hippocrates, the contempo- tute

The marvelous develop- rary of Socrates, denied the discrepancy, and merged Chemistry finds its greatest labor as well had put asunder Hippocrates treated all phenomena reverence and bow down to such sufferers, each man fearing that he may suffer the like, and I myself think too that these affections, as well as all others, are more human than another, but all are on the same footing and all divine, nevertheless, each of them

Recurring to the subject of wounds we can perhaps at no one point get a better illustration of the move ment of discovery than in the changes with reference to their management, and especially of those that the surgeon inflicts in performing the amputation of a It would be idle in the few minutes at my disposal to follow accurately even this one line Hippo crates can hardly be said to have amputated at all, as we understand the operation We find the modifica than 300 years since At first slow of change, but His statement latterly made in almost every conceivable way Celsus, it is true, proposed to go higher up than the scarcely adopted No great modification can be said to have occurred until the time of Paré His ligature marks an era of movement But even this was slow He also was fearful of crushing the of adoption coats of the artery and protected it At length the simple plan of the present was confirmed by expenence, and as far as the ligature in relation to its ac tion on the blood-vessels is corcerned, leaves nothing It can hardly be believed that the to be desired primitive methods of amputation through the con timuity of the limbs could have been made, as they really were, by the mere chop of a huge chisel, or that the bones should have been broken by powerful Even after the osteoclasts preliminary to incision knife was devised, shaped like a cycle, the sweep was direct to the bone, which was sawed off on its line, thus making a stump in no wise different from that produced by the chisel One can hardly contemplate without a shudder not only the operation itself but the painful and ulcerating stumps, whose conical points would ever be sources of suffering As time went on, and we can hardly state the originator of the idea, it was found that the integuments should Then the form of the flap became the subject of endless variation It does not appear cover the bone possible to devise any line of cut that has not been proposed Moreover, it seems if almost every form has it special application For in the expectation of the future utility of the limb, by the aid of the me chanic, the result of our work has become varied We no longer make an amputation of the leg just below the knee to fit the sailor's peg, but assume that none so poor that charity will not furnish the substi We can choose circular flaps or oval ones,

single flaps, even triple flaps, anterior or posterior other ward to the form of the stump

surgeon had to meet the dangers of hæmorrhage plans but missing them for Esmark? Even in our own day surgeons have he upon the surface of the wound employed a common bandage tightly drawn for this whelps or moss grown upon the head of a thief hang-except in cases of gangrene cation of Galen, who had large experience in the amputation as we understand the process as surgeon to the school of gladiators water applied opinion during the middle of the present century He objurgated the method of covering wounds with knowledge, would be simply criminal ointments and charpie in phrase more emphatic than polite, and carried the surgical wound with him But until a late period the wounds of amputation were necessarily open ones The very form of the cut demanded it and when the arrest of hæmorrhage was made by hot irons or boiling oils or caustic buttons of sulphate of copper over the bleeding orifice, no other plan could be thought of But when the simple ligature upon the artery drawn from its sheath, became the fixed, final form of application, surgeons and thus the period of time for perfect closure short- living tissue not pressed into contact, and provision is made for periosteum, are apt to die Deep recesses following the drainage of the purulent material, but these surtice fluids. The amputation may be made as defaces were still, more or less, in contact with each tic fluids.

I do not hesitate to say, that one of our own ones, lateral or double or single We can make members who made the first declaration of his method curved ends or square ones and all having a right to in the Surgical Section of this Association, has placed be considered according to the condition looking for- the question of the management of open wounds upon a perfect basis It has been usually my custom But long antedating the form of the wound, the to employ it since its announcement, and never with regret There has been no failure, and little or no One is amazed that they came so near the modern constitutional disturbance. I refer to Prof Link's They learned to tie cords method, by which the bandage restraining the swellaround the limb and yet they were insufficient before ing causes the edges of the wound, which should be the invention of the tourniquet Why not a little circular, to rise like an erectile tissue and stand up tighter? Why not a compress over the pulsating open to the air, thus making the only genuine airvessel? But it is perhaps in the nature of invention dressing that I know of If left unsupported, flaps that simple things are passed by for a long time One will drop upon each other. If lint is put on the surof their methods also, was to use a series of bandages face there is the touch of a foreign body Even the to diminish the flow of blood? Why did they wait ligatures will increase the suppurating flow when they

As has been stated, the attempts at primary union purpose It must be confessed that from the earliest have seldom been other than partial, till the advent period down to the last few years there has been but of the modern antiseptic methods. In the early little improvement in the general management of part of this century experiments upon the encysting wounds A water dressing was the method of the of ligatures for closing the arteries, were tried and Father, but down through the ages every imaginable abandoned The movement from the open wound, device in the shape of ointments was used by sur-of necessity, to the closed one, antiseptically treated geons, as we find to be the case to-day among the with soluble ligatures and sutures, has been long and people The recipes are amusing reading, but not slow We had almost come to the definite conclu-profitable at the present moment We are not likely sion to make the open wound as the final judgment to be much instructed by those prescribing the oil of of the profession. Hippocrates avoided amputation In his day it was full ing from a gibbet Cold water was the favorite appli- of terror Indeed, there could not be said to be any treatment of wounds in consequence of his position that were crushed or injured by compound fracture The wounds were allowed to get well or to mortify When ganwere simply drawn together and a dressing of cold grenous, after the red line was formed, it was made This is the plan that was urged by at the border that nature had decided on as the place the famous Mr Liston, of London, who controlled of separation between the dead and the living Such delays in the treatment of severe injuries, with our But when gangrene has occurred, and we wait, as we must, except in certain rare conditions generally understood, I am in accord with the custom of Hippocrates This places me in contrast with a custom almost But singular as it may seem, an antisepuniversal tic dressing will complete the measure of safety incident to the amputation through the dead part Reasons for this belief are easily stated, and of course are not those founded on the fear of amputation through the living parts as a general measure began to close the flaps to make the cure more rapid when the red line has formed, nature has already by the process of adhesion This proved to be often made the amputation Following an irregular line. successful, as we all know, in modern experience which is lowest down in the integuments and bone, If the whole surface did not adhere most of it might, separation has been made between the dead and the The danger arises from the retention But we also know that at certain places the of poisonous fluids in contact with tissues now full mortality became alarming An old hospital in civil of vitality An operation of necessity can be made, and a crowded one in military practice, became char- closely following the line of demarcation, and it will Surgeons at different periods changed be found that the endosteum retains its vascularity their methods and open wounds were proclaimed as nearly if not quite as far down as the integument far more successful than those that were closed does. These are the two factors of an amputation But the word open wound as generally employed is indispensable to its success. The muscles, and esa misnomer The wounded surfaces, it is true, are pecially the fascia and aponeuroses, as well as the

scribed, with far better hope of success, than higher up through the living tissues The special dangers of amputation through them are avoided are no vessels to tie, there is no fresh absorbing surface to be poisoned by its own secretion, there is no danger from hæmorrhage, and more than all, in the enfeebled condition of the patient, there is no shock The deep recesses are now exposed, and can be Absorbent cotton, moistened with a solution of mercuric chloride, pushed into the open spaces, at once attracts, by capillary attraction, all the When the succeeding dressing is undertaken, it will be found that every part has the appearance and indeed the reality of having been washed clean The irregular surface is, however, a granulating one, and for this reason alone has become one that is essentially protected from the dangers of sepsis, as soon as a free escape of the fluids can be effected The periosteum, if destroyed, may result in necrosis of the outer shell of the bone But the endosteum will maintain it in its integrity, sufficient for the length of the stump The wound being necessarily an open It will be seen that the obserone, closes slowly vation which I urge upon your attention, is a return to the ancient method, with two thoughts added to it which, in my judgment, should change our prac-They are, as every surgeon tice in these cases knows, fraught with great danger when the amputation is made above, in the living tissue, for the shock of amputation in the enfeebled state is frequently the dead part and divide the bone high up They were anxious to disarticulate, if the line of separation One stands aghast at the had gone to a joint shapes their stumps must have assumed In recommending the open wound, in these cases, I only do so at points where a proper stump can be made Take as an illustration, gangrene commencing in the foot and stopping on the leg four or five inches be-According to our custom the ampulow the knee tation must be made through the thigh danger of such an amputation is vastly more than by the Hippocratic method, at the red line, and the The choice, in my opinlower stump is far better ion, should be made at the red line if possible

The advent of the gun-shot wound, appeared at a time when the practice of surgery was at a low point, and the effect of the "villainous gunpowder" was The terrible regarded with just grounds of terror results were ascribed to poison Both the lead and How could such the gunpowder were poison fatality occur unless from poison? Poison wounds should be treated with the hot cauterizing iron or boiling oil, to destroy the infected surface bullet must be extracted, if it be possible, its poisonous character could scarcely be borne by the constito complete the work of the soldier extracted, all foreign bodies should be removed, even to see a stream of distilled water, rendered properly with the present views of the innocuous character of pectation has been the practice for a long time But now we have antisepsis of the track and careful actually appeared?

covering of the wound, to guard against microbal in-How far this may be carried is yet unknown, There but great advance has already been gained. It is, however, of recent date that the greatest steps have been taken in the management of this special form Among the most notable are those an of wound nounced from this platform The facts are all known to you The great cavities of the body have here tofore been deemed unapproachable heved that the surgeon, if he undertook their explora tion, would render certain what was almost sure to In gun-shot wounds of the abdomen there happen might, perhaps, be one life saved, while ten were Why should this meagre hope be denied? But I do not report, but only allude all this is changed to the marvels that are detailed by Drs Parkes and Senn, marvels that we could only know by the use of vivisection, which fortunately has not yet been sub merged under a sea of maudlin sentimentality Here, again, we have the triumph of cleanliness A gun-shot wound of the intestine, will inevitably re sult in the expulsion of some of the contents of the bowels, the vermicular motions of the intestines will surely secure this result, even if after a while these motions are arrested, in obedience to the law of in flammation These cases of recovery were probably those where a fortunate apposition of the wound near the abdominal walls, circumscribed the area of pollution and nature's active efforts at repair com plete the line of circumvallation The case of the The custom of the ancients was to pick away insane woman in Utica Asylum, who punctured the abdomen and drew out a piece of the small intestine, fourteen inches long, and cutting it off with a pair of scissors, threw it on the floor, is widely known The physician in attendance knew of nothing but expec tation in such an emergency He drew the edges of the abdominal wound together and waited the event No remarkable symptoms supervened The recovery was complete. Many years after an autopsy revealed the fact that the edges of the intestinal wound But the had been fastened to the abdominal wall But such results are too rare to be guides of conduct The new methods are already accredited with improve ment, and as the courage and better diagnosis of the surgeon improves, we will inevitably place the treatment of these wounds by laparotomy upon Every surgeon has seen cases of a sure foundation strangulated herma where gangrene has supervened, and will bear testimony to the fatal character of the Now, for the relief of this condition, en teroraphy comes in to take its place as a recognized operation, with large increase in the saving of life Again, cleanliness is the pivot upon which the whole movement turns It seems incredible that the peculiar kind of filth that invades the peritoneum in gun-shot wounds of the intestine, can be removed The surgeon with such views would be apt sufficiently to secure even such results as have been immense surface are dangerous expedients This has always been accepted, and ex- long enough to insure cleanliness? Are we to im gate the surface after inflammatory exudates have The possibilities seem large

That these exudates, when extensive, will accompany depth of absurdity to me to be manifest. In the experiments by Dr. migration through the wound It has been my fortune to witness two deaths from rupture of the intestine by external force, without a wound of the three hours, and the man in twenty six revealed a fact exactly the same in each case The remotest corner its firmness many hours before death It is hardly rare exceptions to this plan Others advised reducoccurred during the latter hours of life be undertaken in the gun-shot wound, for it presents of the astragalus also intestines from end to end, merely to settle the diag- judgment of the practitioner has still shrank from the responsibility Now, tofoundation, literally purifying it with fire

Just fifty years ago, during my student days, I had the pleasure of an invitation from Prof Mutter to Philadelphia, and as I believe, on this continent was his second operation The antecedent one was upon the ham-strings Still a young surgeon, he was especially patronized by Dr John Ray Barton, who was so dangerous prospects in life pressed itself upon the surgical mind value of direct repair had acquired its recognition the result of course the subcutaneous cut was not appreciated marks one of the most magnificent of all surgical resume of my judgment in these very grave wounds The rationale was to be explained to The tenotome would almost elbow joint

But had he not seen tendons a fatal inflammation without the formation of the sloughing when exposed to the air? Had not cases dangerous ptomaines of microbal creation, it seems of accidental incision of the Tendo Achillis been reported often enough to prove, that if the life, Parkes on dogs, one fact is to be specially noted, always in danger, was preserved, the limb was likely the frequency of the existence of entozoa and their to be useless from the loss of its great tendon? The surgical world woke to a great fact, and strabismus, torticollis and all contracted tendons came under the surgeon's knife, until it became almost a craze when abdominal wall, not even a break in the parietal Guerin, for the relief of lateral curvature of the peritoneum One was in a child of 6 years of age, spine, cut every spinal-muscle and tendon that he the other in a man of 40 The child died in twenty- could define, until the chain of bones could be Autopsy moved like a serpent's back

At the meeting of the New York State Medical fibrinous exudate of a character sufficiently firm to Association last September, I led the discussion be lifted upon the handle of the scalpel had extended | upon the proper method of treating compound disover the whole surface of the peritoneum, even to its location of the ankle joint. I found the opinions of It is a little odd also that a single surgeons on this point very indefinite, with a strong, lumbricoid had crawled through the opening in both even an uncompromising judgment in favor of am-The fibrinous material had probably acquired putation, notably by Prof Gross who would make credible that much pathological change could have tion and a few relied on resection, some, of the tibia But we and fibula with removal of the ends of both bones were harrassed with doubt whether laparotomy should with their malleoli, while others removed the surface Even the most modern unusual dangers from the necessity of handling the writers left the whole subject in a vague way to the These authors were With all the improvements of the modern quoted to show their various opinions, but it would methods of making the abdominal section the surgeon | be out of place in this paper | For a long time I had been convinced of the great wrong inflicted by these day at the supreme moment, Dr Senn places the teachings, which were founded on the statistics of diagnosis of the gastric intestinal canal upon a sure hospitals in large cities before the day of antiseptic surgery Such advice was even then not applicable to the condition of life in the country and smaller towns where purer air and better constitutions exwitness the first operation on the Tendo Achillis in isted together I had used resection with good re-It results in three cases, and had seen two cases, in consultation, which had been simply reduced by the surgeon in attendance The latter made good recovery after a considerable constitutional disturbupon the then recent death of Dr Physic, was by ance, but by anchylosis But before writing my common consent recognized as the surgical chief of paper, I had the good fortune to see a case that had Dr Barton protested vehemently been treated by a young friend, (Dr P G Udell), against the operation and refused to witness it, being which seemed to mean almost ideal result The foot, unwilling to give his countenance to anything that movable through a little more than half its normal It would certainly blight Mutter's extent, and free from pain in walking, was enabled to Moreover, the interests of the pa- execute its function by the formation of a flail-joint nent should stand first, and he could not be a party after the resection of an inch and a half of the tibia to anything so contrary to good surgery The great and fibula. The novelty of the method, consisted in fact of the protected immunity from suppuration leaving the two malleoli attached to the astragalus when subcutaneous incision is made, had not yet im- and bringing their fractured extremities in contact The vast with the resected end of the bone Granulation was Drainage and carbolic acid under the guidance of John Hunter, but the value of solution were employed to secure antiseptic results This Permit me to quote my own paper, which gives a

"One of the greatest triumphs of surgery is the day Antisepsis is the legitimate descendant of the marvelous utility of the arm after resection of the This flail joint, as I have been in the surely be cleansed as it passed through the skin and habit of naming it, can execute all the motions of the minute wound would be washed by the few drops the normal one if we are careful in its training during of extruded blood This was clearly our antisepsis the period of its perfecting. The case I have cited, Was not Dr Barton justified by his experience? illustrates a possibility of a similar result in the ankle With our knowledge, his conclusions reached the Should we not then regulate our treatment with this

end in view? Let us for the present leave out of the application of the splint for permanent retention consideration any complications, such as may arise from rupture of the posterior tibial artery, proceeding with our plan even if there be a rupture of the an terior tibial great crushing force has compressed the soft parts as well as luxated the joint, which would almost necessarily produce gangrene The most common cause of this injury is a fall from a height upon the foot, as with the line of the leg need not be told to this audi jumping from a carriage when in quick motion foot coming in contact with the earth and then held, while the body is in motion, almost surely induces a spiral twist, which, with an inclination of the leg at an acute angle with the ground, produces the break of bones and rupture of soft parts The end of the tibia is thrust into the ground Two of these cases were from jumps from the carriage when the horses Bad as such conditions are, they are were running not apt to produce much destruction by gangrene Such a condition of the synovial membrane cannot be remedied but by suppuration, if reduction is attempted, no matter how much care we may use in cleansing or antiseptic dressings But there are cases where there is only a rupture of the soft parts and ligaments, and the joint is barely opened and point of contact at the centre moderately displaced

"I am disposed to lay down a formula thus for the of the astragalus at once comes in contact with it, cases of the mild character just mentioned the clothing be carefully removed At once apply granulations a sponge with a bichloride of mercury solution, i to that is so often the result of treatment by resection, eign particles, under these circumstances most likely monly attempted The tenacious synovia picks up at once the early period to be lint particles of what it comes in contact with can be removed with antiseptic sponges held in antiseptic fingers The edges can now be neatly apposed of the similar condition of the elbow joint A slight with fine sutures of carbolized gut, after the bones have been replaced It is not absolutely necessary to use a splint of plaster of Pans, but I confess to the process of repair my partiality to it on account of its immobility A double-inclined plane is a very good appliance before its application the leg around for several inches to extreme flexion should be shaved cotton, wrung out of a solution of the bichloride the foot and leg can be substituted for the rigid plas mentioned, and cover the surface, over which an antiseptic covering should be placed. This is a bid for adhesion, of course, though it is seldom to be follow as the rule from such a procedure expected

"But let us regard the more usual form, as described Let us assume that the malleoli are in place as far as the astragalus is concerned, but broken above, the end of the tibia thrust into the soil It is surely idle to hope that any amount of cleansing can prevent suppuration. The procedure, in my opinion, should always be resection and, if the astragalus be not broken, only of the end of the tibia and fractured end of the fibula whole inch of the bone should be removed course the most careful cleansing should not be There has been no doubt then of the propriety of be joined to the bones above by catgut carbolized we have before us? My advice is still for conserva The ends of the fractured malleoli should amputation This only for the sake of absolute apposition, which paratively trifling The fragments must be removed, might be disturbed in the necessary handling during the resection may be two inches or more, instead of

The edges of the wound can be brought together at what would be the upper part when the foot is at rest, while the lower is filled with a drainage-tube Also, leave out those cases where a I should scarcely be satisfied with any appliance for securing the proper position except the gypsum bandage, with a large opening for the requisite dress That the foot should be placed at right angles In consequence of the resection this is easily Where there has been reduction without re section, the position is painful by increasing the press ure upon the inflamed synovial surfaces The surface of the wound and surface of the skin for two or three inches around should be covered with some antiseptic dressing, of which absorbent cotton, saturated with the bichloride solution, is to my mind sufficient

"The drainage-tube offers an easy access to the depths of the wound, which should be washed by an antiseptic solution, of which carbolic acid may be the most safe, as well as sufficient Let us suppose the progress favorable, the rise of temperature mod erate, as well as the other constitutional symptoms We have a right to expect union, commencing at the The straight line of the saw-cut on the tibia applied to the convex surface Let while the surfaces on each side are to be filled by This condition permits the motion With a lens inspect the part to discover for- and should be cultivated more early than is com The stage of danger is during When the granulations are filling These up the spaces, change of position should be under This is my constant practice in the treatment taken change in the angle of the foot toward the leg could be made every second day, so slight as not to disturb This can be carried on until the extension of the foot is as complete as that of Slowly the foot can be carried down But the sound one To accomplish this purpose, a I would then apply absorbent splint hinged at the centre of motion and controlling ter of Paris

"I cannot but believe that a successful result would ger of resection with these appliances can hardly be more than a Syme's amputation The bone cut is the same, and is probably not more susceptible to the septicæmic infection than the synovial face of the astragalus If, however, the case is showing a dan gerous decline from excessive temperature and fever, with too copious suppuration, we have the resource

of secondary amputation

"But let us suppose that the conditions are not so From one-half to a favorable, the comminution of bones considerable, Of and the soft parts much lacerated and contused Must this sad resource be the only one The danger from bone communition is comone inch, from the end of the tibia, and yet pro duce the most splendid result. The great danger if there is hæmorrhage from an artery of some size My experience in the use of warm water to preserve the circulation in injured tissues has been so different from that which I had before warm water as a persistent agent had been so generally employed, that I am constantly astonished at its efficacy Even when I know that the tissue of a foot or hand is destroyed, I cannot always feel secure of my flaps at the point of car wheels had passed, but not injuring the heel and But as this cannot be absolutely known, the proper method is obviously to amputate above the But the great superiority of the stump after cases in warm water for six days. In each of them a sufficient flap was secured defined, and without alarming symptoms But it is supervened that I cite this experience, and I would not delay the use of the last resort a moment after the occurrence of gangrene But it is the marvellous effect of warmth to save the vitality of injured tissues, and as this can be used in connection with the antiseptic measures, the case would be a bad one indeed where I would employ amputation as a primary

"The introduction of the foot into warm water nedeprecated To avoid this inconvenience, an anterior metallic splint may be used for the first week, which, being raised from the bed, allows every convenience for the drip and avoids the painful droop of My habit in the employment of water for both the ankle and the knee is to envelop them with cotton, and then surround the whole with an elastic rubber sheet Upon the top of the cotton the water can be poured from a pitcher or fountain syringe at short intervals, avoiding fluctuations of temperature This water may be rectified with the bichloride of edge of good methods is expanding its application mercury, 1 to 5,000 If gangrene should supervene, for the red line of separation That there are cases of luxation so complicated with extensive laceration that no question of the propriety of amputation need be asked, is certain, but I urge the profession to lean to the side of mercy "

Six months' reflection and experience has induced a change of opinion I would, in nearly all cases, reduce and rely on the power of cleanliness and an-There are those, of course, where the crush is so severe that there can be no doubt But when the rupture is great better opportunities are given for the inspection of the surfaces than when the opening is small. The resection may be secondary and the amputation tertiary

The microbal discoveries of Pasteur and Koch and their disciples have placed all of our therapeutics on a new basis I will not detain you in speaking of

thread through the woof of all knowledge How can we measure the scope of a piece of glass ground to comes from the sphacelus of soft tissues, especially a lens? The spectroscope was a mere philosophic toy at first What now the analyst of the sun as well as of the blood No one can now measure the possible triumphs of surgery That which was excellent yesterday must be abandoned to day I confess, after long years of practice, to a delight that has the glow of youthful enthusiasm when making a resection of the knee under the use of mercuric chloride and closing up the wound with silk sutures, and ap-I recall two cases of boys over whose feet plying drainage-tubes in each corner of the wound, and then covering the whole with absorbent cotton saturated with the same microbal enemy, to remove the whole at the end of two weeks with complete closure, every suture encysted, and not a drop of pus Syme's operation induced me to keep the feet in both Of course, there was no fever, only physiological repair Or even to witness, perhaps, a more difficult The dead tissue was feat in a much more common condition, the neat apposition of the tissues of a hand lacerated by mawith no desire to obtain a flap after gangrene shall have chinery, while a stream of the antiseptic solution flows over every part, and the retention of these tissues in their proper position by sterilized catgut, the whole protected with absorbent cotton saturated with the solution At the end of a fortnight the sutures have disappeared, the repair is complete, without a drop of pus Such are now the experiences of all of you, and need no enlargement of statement surgical atmosphere is now antiseptic. Lister must take his place beside Jenner For the time, he has cessitates a dependent position, and this is one to be added a word to the language, and we do not mean merely carbolic acid and the spray, when we speak There is already a wide range of maof Listerism terial to choose from It is, however, obvious that there is a constant tendency towards the employment of the mercuric bichloride, notwithstanding the objection raised by Prof Billroth and his preference for 10doform Its accessibility, its inodorousness, and enormous powers as a germicide will easily account for this The natural fear of its powerful toxic effect has rendered us all cautious, but more knowl-

Who has not dreaded the care of a compound a secondary operation can be made without the delay fracture of the thigh? But now we have report by Prof McEwen of 1000 cases of osteotomy and no bad results Who a few years since could have accepted the statement, that the bone could be cut and crushed, the surface broken and driven into the texture of the bone above and below, and yet remain absolutely free from the danger of necrosis and ready for union? The operation is essentially subcuta-But Dr Hahn, of Berlin, boldly incises the soft parts and exposes the surface of the tibia under a stream of mercuric solution, regarding this operation as secure as the subcutaneous cut, and as the parts can be seen they are more susceptible of proper management. In all these cases merely the quiet necessary to physiological repair with its antiseptic covering comprises the after-treatment. Its simplicity and rapidity of result amazes one haps, however, the best illustration of the value of them, the subject is too trite. We hear now of little the treatment that renders wounds aseptic is to be else No one knows, when a real discovery is made, found not in those McEwen has made, but in those how far it will reach. It always seems to run like a that have resulted from accident, which we recognize

as compound fractures They are at the deepest part | tumor, notwithstanding McDowell's success, was stigof the limb and present every form of wound in the same case known as incised, punctured, lacerated and contused antiseptic surgery flows from every hospital would be burdensome to quote much, but the tables of Volkmann give at a glance the whole history of the modern leap in surgery It has always been the misfortune of old hospitals to be the places where the greatest mortality would ensue when a wound was to be treated It is not necessary to enforce this statement by any large collection of statistics, but I can- good result It, however, failed not pass by the consideration of this subject without proach have we arrived at the present simplicity of quoting the extraordinary tables of Volkmann has collected the facts from the hospitals of Germany beyond the necessities of ordinary surgery and England, and found that the results in all were difficult to apply what we call experience Surely similar in a very remarkable degree He found that of 885 compound fractures of the limbs, 339 deaths resulted, whether preserved or amputated, being 38 50 This in civil life In military hospitals the percentage was 236 The difference may be easily accounted for by the fact that many of these were recently constructed and often extemporized, and also that the average age of the subject was during the firmest periods of life The approximation in results in the various civil hospitals is shown very

Baum, in Gottingen, the mortality was 38 per cent Billroth, in Zurich, " 38 7 " 38 7 " A0 5 " A0 5 " A0 6 " A0 6 " A0 6 " A1 8 "

Since the adoption of an antiseptic method, Volkmann makes report of 75 cases in 73 patients with compound fractures and many with injury of the joint, and not a single death Of these there was the extraordinary number of 21, or 28 per cent of all Eleven of these were treated conservatively, and there was but one that resulted in anchylosis One was a shoulder-joint which was resected elbow-joint was opened six times, of which there were made one primary, and three secondary resections The knee-joint Two were treated conservatively was opened four times and treated conservatively The ankle was opened six times Two were treated by secondary resection One by amputation Three were treated conservatively The management was In the first place protracted drenching with water, the removal of spiculæ and trimming sharp ends of bones, enlarging the wound always enough to allow exploration with the finger, and then causing it to gap by retractors, while the drenching was going on, not stopping until the last coagulum was disposed Then completing the irrigation by a drench of carbolized water After the proper replacement of parts the whole was covered with abundant layers of carbolized gauze, and kept free from accumulation of fluids by drainage tubes Most of the cases were seen within a few hours after the injury ever, were treated after delay of forty-eight hours

The great achievement of the day, however, is by common consent the marvelous growth of laparotomy During my early career the removal of an ovarian

matized as murder, which indeed it seemed very often to be Dr Atlee was fiercely denounced for They have always been the terror of the his efforts to bring this operation into the ranks of At present the record of the triumphs of legitimate surgery, which he lived to see fully estab-But through what a valley of death have the It lished wonderful results been obtained It is now but 14 years since Keith electrified the whole surgical world with the report of 10 consecutive cases and only one Two years after Dr Atlee remarked to me, after performing an operation of this kind, that if it should succeed it would be the tenth consecutive By what slow ap The manipulation is simple, but delicate He operating every surgeon had seen enough of the danger of opening the peritoneum to fear its terrible inflamma tion which we have often seen sun over the whole immense surface, even to its remotest recesses, beginning at a wounded point Experience was ample How could we dare to defy the results of such knowledge? But from the recognized fatality of the tumor, and the distressing condition under which life was maintained during the latter period of its exis tence, we should have known but little of the dangers to be avoided and how to combat them How long a time it required to learn, that after all, it was not peritonitis that we were chiefly to fear We had to learn that the whole immense surface was but little else than the expansion of the lymphatic system, as the skin is of the nervous one And when the blood mixed with the contents of the sac, that have been left behind, excited first a secretion from the surface for their solution preparatory to their absorption according to the natural law for their disposal through the blood, we encountered on the autopsy the fearful Too much was to be done Even our red serum I still accept the correctness therapeutics misled us The of the opium treatment in genuine non traumatic peritonitis We owe a great debt to Dr Alonzo Clark for the careful development of its excellence in this condition But our pathology was a mistaken one, and I cannot but think that the mortality is increased in the cases first mentioned by the use of How much to unlearn and how hard in the face of our experience? Who has not looked into the peritoneal cavity during an operation and hardly dared to touch it, preferring to leave some blood and sac contents, rather than touch the inflammable sur-But the death of Keith's eleventh case struck The peritoneum must henceforth be face To our astonished gaze the membrane could the key-note be sponged and washed and dried, and then it quietly removed the small amount that the sponge could not From this time the death rate diminished in the hands of every operator, and the note has become universal that the basis of all antisepsis is clean-Even the exudates from peritonitis must be removed, according to Mr Tait, who has for this condition washed out the cavity with water that flowed from the city tap and which, according to a friend with microscopical knowledge, contained "thirty six different kinds of beasts" "You reject antiseptic tures, after having extirpated the mucous membrane water" Again it is cleanliness say that surgeons did not esteem cleanliness as going a long way before Godliness in operations was not of the precise and thorough kind that was dency to suppuration, than the peritoneum has given us out of our consideration They transcend those of all others who have undertaken to folfor the removal of an ovarian tumor is by common extraordinary triumphs of antisepsis consent, in its various conditions, at times the most of simplicity procedure intended to be similar. There is a preponderating opinion that direct antidotes to the protermination in cases that have been operated upon wounds accompanied by exposure of the peritoneum surgeons are not likely to omit proper antiseptic bone, and is also a valuable antiseptic measures We are still in the midst, of change, but know, has removed this operation from a mortality that seemed murderous to one that is less than any operation of a capital character That this result has natural law is too obvious to be denied

three inches from the vaginal junction This was ute, would be aught but useful and the blood was readily prevented from passing ed inch from its junction with the vagina, and at this linea alba. Thus peritoneal surface was brought with the proper antisepsis became comparatively against its congener The intestines had fortunately unnecessary been kept covered by the abdominal walls Union

medication," said I to Mr Tait, who replied "Yes, of the neck, and brought the abraded surfaces toit is all rubbish, there is but one antiseptic that I gether by a sort of autoplasty, and drops it back know of "Pray, what may that be?" "Soap and into the pelvis. As an operative procedure this It would be idle to seems to me to be final

But the exposure of a joint to the atmosphere is But it far more apt to result in inflammation, with a ten-I will leave the statistics that Mr Tait now we follow the nests of bacilli into the joint with the sharp spoon, and filling all nooks with an antiseptic solution, close the capsule with an assurance low in his footsteps, so as to lead one to believe that of freedom from any active inflammation, especially there are some problems unexplained The operation of a suppurating form. This is surely one of the most

I must not omit, in this sketch, the important step difficult one of execution that ever comes under the in advance that was declared in the papers of Prof. hands of the surgeon At other times it is the type Andrews and Dr Watson, delivered before this As-These circumstances give an oppor- sociation last year, on the treatment of carious tunity for a wide difference in the results of operative wounds by the use of a solution of hydrochloric acid 1 to 20 A priori, every one felt that such a strength of acid must be so irritating as not to be tolerated cesses that seem to control the poisonous results of But coming from such authority, I at once adopted suppuration, increase the percentage of favorable the method, and I desire to say that I regard it as one of the great advances in surgery, free from dan-Their use marks another step in the treatment of ger or even irritation, and replete with power Moreover, we have at the same time an agent that Mr Tait's results are to be regarded as unique, and removes the dead and does not injure the living

Neither must I fail to speak of one of the stages the splendid record of expert operators, as we all in the progress of research which is marked by the attempt to obtain sterilized air As we all know, Lister's spray has occupied the largest place for this purpose, with a reputation much waning, and enbeen obtained by constant attention to the action of tirely abandoned as worse than useless in laparoto-Let any one make the experiment of throwing Several years since I removed a uterus containing the spray upon a plate of glass for a few minutes, a fibroid weighing seventeen pounds The cut ex- and he will find, by the employment of a lens, that tended nearly the whole length of the linea alba, be- the rush of the vapor has drawn in and deposited fore it could be drawn through it The vessels were upon the glass every floating particle in the atmosligated on the sides and then I carried out my de phere, thus concentrating the minute foreign bodies vice for managing the stump, and guarding the peri- instead of dispersing them Independent of the toneum from the presence of the dreaded foreign poisonous carbolic acid, rapidly absorbed from the body in the shape of ligatures or sutures A slight large surface of the peritoneum, we would make a incision was made all around the huge mass about special deposit of foreign bodies, which, though mindissected down and all around to nearly the point Lister's time, a plan of enclosing the part to be opabove mentioned. The vessels were easily seized erated on in an atmosphere of nitrogen was attempt-The difficulty of executing the procedure to a into the cavity of the peritoneum by the cup like successful termination arrested the experimentation Amputation was made about an Many years since I myself entertained the hope that benefit would accrue from the pouring of carbonic point it had of course become small But little blood acid gas over the wound and into the cavity during flowed from this last procedure, for the vessels had a laparotomy, thus excluding the atmospheric air already been secured After hæmorrhage had ceased But without sterilized hands and other necessary apthe edge of the cup-like pedicle was pocketed in the paratus, the method was comparatively useless, and

We also find Dr Prince sterilizing the atmosphere of the wound in the linea alba was perfect A drain of the whole operating room, and a Boston hospital down through the neck of the uterus seemed to me supplied by air from the roof, which, being carried the most perfect of appliances I fondly hoped that to the basement, is passed over heated plates in winthis was all that could be desired But I had at this ter, and thence distributed over the building Burntime no means of antisepsis Now Pean, as reported ing sulphur is a common method of preparation with by Dr Senn, closes over the stump with catgut su- which all are familiar Perhaps we may yet choose a room whose air shall be purified by its passage through sterilized cotton, or through tubes in imita-

tion of Tyndall's glycerine box

It is the glory of the time that really great men among us are not so marked by a wide separation from their colleagues, such as prevailed one hundred Then there was but one John and fifty years ago Hunter, and he remained without peer, and with few followers Meeting one of his contemporaries when he was carrying home some pig's feet from the market, for the purpose of anatomical inquiry, he was sneered at for busying himself about pig's pettitoes To day, the pettitoes on such a mission would be enclosed in a nimbus We now have a Koch who leads, but there is a large following close at his heels We have Atlee and Spencer Wells, but almost at once their followers appear everywhere and outstrip their teachers

We sometimes hear pessimists declaim against the methods of the profession, and summing up their wild statements in the compendious anathema, that the world would have been better if the practice of medicine had become extinct Our modern methods have not been long enough in use, to attract the kind of folly, that denounces vaccination, but it will ap-When pointing to the vast benefits that man kind has received from the labors of the medical profession, we naturally place at the head the trifling This is a contribution of operation of vaccination Next to this stands the practical extinction of scurvy, which decimated the crews on long voy-This result ages, seriously crippling commerce must be placed to the credit of the hygienist Koch is credited with the assertion that the student will soon only know septicæmia by description, as he This is the addition to science now knows scurvy furnished by the bacteriologist But this is rendered the greatest boon of all by the surgeon It is the crowning achievement of modern science, that we have already returned two of the greatest scourges of mankind to the box of Pandora, with a reasonable prospect of adding a third to the list

It seems incredible that surgeons could have been at any time united in a guild with barbers connection in England was severed in 1742, while Mr Pott was in active life, a man of culture, who has left his mark permanently upon the art But the surgeon stood in rank far below the physician, and at one time was not allowed to make a surgical operation without the consent of the doctor present it seems as if the future of the profession With a single bound the must be largely surgical limitations set up by the physician have been pushed The surgeon opens the various cavities of the body, not only to repair injury, but to remove aside If the physician the results of morbid processes fails to rectify the abnormal chemistry of the enlarged spleen, the surgeon removes it and pyelitis with organic disease in one kidney is If disease obstructs the bowels, he cuts it out and sert the tube connected with the bellows, when a bearing the patient down, the surgeon takes it away If the brain has an abscess pressing on it and en- face, that violent coughing was set up, expelling with joins the healthy ends of his cut the seat of abscess he punctures and drains them

dangering life, he punctures, drains and renders the wound aseptic It is difficult at the present moment to define the possibilities of modern surgery It is a fit representative of the time we live in, the com bination of science and action

ORIGINAL ARTICLES

TRACHEOTOMY IN MORPHINE POISONING

Read before the St Louis Medical Society, March 21, 1888 BY BRANSFORD LEWIS, MD, ASSISTANT SUPERINTENDENT OF CITY HOSPITAL

About four months ago, I read in the Medical Review, a short account of the resuscitation of a physician of Vienna, from opium narcosis by means of tracheotomy and forced respiration with a bellows It seemed to me to be a rational and feasible pro cedure, and I determined to try it, should the op portunity present itself

On the afternoon of March 11, 1888, a young man was brought to the City Hospital in an unconscious It was reported that about an hour previously, in ending up a debauch, he had taken an ounce of laudanum with suicidal intent

His condition then was bad, cyanosis was marked, the pulse was proportionally weak, and fespiration, already shallow, was rendered difficult by the ac cumulating mucus in the trachea The pupils were minutely contracted and immobile, extremities cold The treatment usually carried out in the hospital in such cases was adopted, one-hundredth of a grain of atropia, and several syringefuls of whisky were ad ministered subcutaneously, the syphon-tube was passed into the stomach, and that organ was repeatedly washed out, at first with water, afterward with strong The flagging respiration was stimulated by douches of cold and hot water alternately dashed over his chest, and to the same end the Faradic current for a time seemed to be of benefit But not withstanding our efforts, narcosis became more pro found, cyanosis was intensified to a degree which I have seldom seen, and efforts at respiration on his part ceased entirely, so that artificial respiration was substituted, effectually at first, with much less suc It became evident that unless something radical were done, and that, too, immedicess afterwards ately, the patient could not last I bethought me of

the bellows method The patient was hastily removed to the amphi theatre, where, with the kind permission of our superintendent, Dr H C Dalton, I performed tracheotomy as rapidly as possible, during which only a gasp was taken now and then, probably two or three to the minute On separating the severed cricoid, a deep inspiration was followed, as is usually the case at this stage of a tracheotomy, by a consid erable interval of quietude We were about to in by the direct impact of cold air on their mucous sureach spasmodic expiration, mucus which had collected in the trachea to a considerable amount this means the tube was soon cleared of its contents Coincident with the violent coughing, of course, at, though attained in an unexpected manner, withgan almost immediately nance gradually paled under the more vigorous dogs action of the heart-however paradoxical that may appear at first thought-and efforts to speak evidenced returning consciousness. A piece of moist gauze placed over the tube, acted as a filter to the Injections of stimulants-whisky and inspired air ether-were continued at intervals, and another hundredth of a grain of atropia was given, after which the patient was removed to his bed and subjected to frequent and vigorous stirring up when respiration next several hours

Sleep was not prevented, and he was soon wrapped measure in its soothing embrace

On the following morning the tube was withdrawn and the incised membrane and cartilage were sutured. the rest of the wound being allowed to granulate

I should like to be able to close the record of this case a la mode with the statement that recovery followed without a bad symptom, but I am prevented from doing that by the fact that four days after his entrance into the hospital, the patient became subject to delinum tremens, from which he died thirtysix hours later The presence of pneumonia or cluded by post-mortem examination

It may be suggested that possibly the patient might have recovered even after several stoppages of natural respiration, such as the one which precipitated the operation, ordinary methods of artificial respiration being employed I, too, believe that demonstrated in cases of that kind

I have seen not a few patients with vastly less cyanosis, with at times stronger pulse and more vigorous respiration, succumb under the continued use of that treatment

And the procedure could add no complication to could only be of benefit, by allowing a free vent for tne cause of that ominous sign, the tracheal râle, and by shortening and simplifying the channel of communication between the lungs, and that all powerful life giver "fresh air" As hinted at above, the direct influx of unwarmed air would seem to be no mean factor in conducing to the desired end respiration not be reestablished, or fail after its repeated reestablishment, it would be easy enough to insert into the tracheal tube, a tube connected with a bellows, by which the lungs could be forced into activity as long as desirable

In searching for literature on the subject, the Index Medicus directed me to only one article refering to it, that of Dr G E Fell, in the Buffalo Medical and Surgical Journal, for November, 1887 In it the author reports the successful treatment by

means of forced respiration with bellows, etc. of a patient who had been poisoned by morphine for a longer time than the one to whom I have called The narcotism in the former case your attention deep inspirations were taken, just the object aimed seems to have pursued a course not so rapid as that of the latter The apparatus used was the one out the use of the bellows, change for the better be- usually employed in the doctor's physiological labora-The dark purple counte- tory in the performance of artificial respiration on

> The operation was done on July 24, 1887, prior to the one performed at Vienna, and was therefore, so far as known, the first on record Since then. Dr Fell has used the treatment with success in two cases, both of which required the prolonged exercise

of forced respiration

In view of the results of the hospital case, I believe that in morphine poisoning, where other means fail, even though it be impossible, on account of the was inclined to flag-and it was so inclined for the lack of apparatus, to supplement it with bellows respiration, tracheotomy is a wise and justifiable

CORROSIVE SUBLIMATE INTERNALLY IN PUER-PERAL AND OTHER SEPTICÆMIAS

Read before the Gynacological Society of Boston, February g, 1888,

BY C W STEVENS, MD, FELLOW OF THE BOSTON GYNÆCOLOGICAL SOCIETY, OF THE AMERICAN ACADEMY OF MEDICINE, ETC

I was first led to use corrosive sublimate internally other complication of that sort was definitely ex- in puerperal septicæmia by observing its beneficial effects in diphtheria. The principle on which I base its use was announced in 1884, at the Medical Congress in Copenhagen, by Dr Bouchard, who then made this statement "Medical antiseptic therapeutics does not propose to kill the microbe, but only to stay its pullulation Even slight modificapossible—but not probable, a fact but too often tions in the human infected organism may prevent the indefinite multiplication of certain microbes which have invaded it "

It was found by Roice, of Utrecht, that in any suppurating focus microbes are found in the blood and kidneys Dr H J Garrigues, in his paper on puerperal fever in the genital tract of puerperal women, the already critical situation, on the contrary, it has endorsed this view by recommending, in addition to local treatment, "carbolic acid, sometimes combined with the compound tinct iodine " If we can hinder the proliferation of microbes, or render them mert, is it not as important as their elimination from the system? Dr Macan, in his report of the Rotunda Hospital for 1883, declares that he knows nothing which will quicken the elimination of the poison from the system in hetero genetic infection In cases in which the source of poison is heterogenetic I am accustomed to attempt to sterilize the air in the patient's room by means of iodine vapor I place iodine sales in cups with a little alcohol and suspend them around the room The fumes are not disagreeable nor very irritating, and are well borne I have used bromine, but find it rather troublesome to the throat

My initial dose of corrosive sublimate is 12 grain,

and if any looseness supervene I diminish it to $\frac{1}{96}$ If there be a tendency to too frequent dejections the bichloride can be guarded by an opiate never had any sore mouth nor any unfavorable symptom except a slight relaxation of the bowels, which ficial effect was relieved by diminishing the dose

In connection with the internal use of bichloride, it may be used as injection, but I believe the cases | tenement of poisoning have been due to a too large dose Dr Ernst has pointed out that even 1 10,000 will stop formly show a diminution of temperature after its the proliferation of microbes uterus 1 5000 and in the vagina 1 3000 As to Dr W L Richardson's pad, I have used something more simple which I think equally efficacious the nurse wring a napkin out of lukewarm 1 2000 solution and apply it moist, it gives great comfort

There are certain cases of mercurial idiosyncrasy in which it is better to use injections of liquor sodæ chlorinat or of permanganate potassæ, the latter of which I have used several times with satisfaction

In cases in which chill or uterine colic follows intra-uterine injections, I think crayons or suppositories of todol are excellent. Apart from its danger-ously poisonous properties, todo form masks the lochial odor, which is a great di advantage Iodol, although having nearly the same per cent of iodine, appears to be innocuous, and is excellent in suppur-

ating surfaces

Case 1 — Mrs R, æt 18, primipara, was confined by me Nov 14, 1887, of a still-born child at term was obliged to use forceps on account of incompetency of uterine contractions and exhaustion of pa-There was no rupture of perineum, and but a slight unilateral laceration of cervix She rallied Her lochia were very well from the operation scanty from the beginning There was no trouble with the milk secretion She seemed to get along in a normal manner, and complained of nothing until Nov 23, or the ninth day, when she was taken with ngor and fever The next day I found in the morning pulse 108, temperature 103° F Severe frontal headache, nausea and fetor of the lochia panitis nor diarrhœa, and only slight tenderness over uterus and right ovary I ordered her 18 gr quinine and injected into the uterus a 1 60 sol carbolic A few minacid by means of Jennison's reflux tube utes after the injection she had a severe rigor, which lasted half an hour The next day the pulse was 100, temperature 103° I now injected 1 2000 hot bichloride sol, and applied tinct iodine over hypo-A few minutes after the injection she had gastrium a bad and long rigor and became much alarmed

The following morning her temperature had gone up to 104°, and she found it impossible to turn over The injections had evion account of soreness dently caused shock and had not relieved her in any way, in fact she was worse I now prescribed corrosive sublimate gr $\frac{1}{48}$ every two hours morning the temperature had fallen to 100 5° and She felt much better and less sore ride daily, and continued the same internally until the sixth day of the septicæmia, when she became convalescent the pulse to 92

Case 2 is that of a four-month abortion in which septicæmia ensued from retained placenta I re-I have moved it, washed out the uterus with permanganate of potass, and gave bichloride internally with bene-

Case 3 -Puerperal peritonitis of a severe type, with bad sanitary surroundings in a gypsy crowded The bichloride caused a fall of temperature and was beneficial Recovery My cases uni I have used in the use, and generally very quickly i

MEDICAL PROGRESS.

CASE OF COBRA-BITE CURE --- MR PERCY A RIGBY, Offg Civil Surgeon, Sonthal Pergunnahs, re

ports the following interesting case

On October 21, a Hindu, named Mohan Lal, aged about 30 years, brought a young cobra, two feet long to me, in consequence of a reward I had offered for a live cobra, for the purpose of experiment, at about 8 30 A M As I was not at the dispensary at the time he exhibited the snake to the Hospital As sistant, with the result that it escaped, and in recap turing it, he was bitten between the index and middle fingers, on the back of the hand He refused any treatment and went home to take native medicines At 12 30 PM, the Hospital Assistant was informed that the man was in a dying state, and he at once had him brought to the dispensary

On admission, the patient could not stand, his respiration was gasping, and he could not raise his head, but was conscious Saliva was flowing from his mouth, and mucous râles obstructing respiration Pulse full but soft, hand and forearm swollen, the palmar surface corresponding to the bite was livid

The Hospital Assistant gave a hypodermic injection of permanganate of potash (5 per cent) in the situation of the bite, rubbing permanganate powder into the wound, and a draught containing liq am-

moniæ m xx aqua oz 1/2

1 PM -Patient gradually becoming worse, saliva in great quantity pouring from the mouth, mucous râles very marked, convulsive spasms of body and especially of the extremities, respiration spasmodic, head fallen forward on the chest Pulse softer Re peat draught of liq ammoniæ

2 PM -Symptoms increasing in severity, mes

senger sent off to me

2 30 P M -On my arrival I found the patient as described, apparently sinking fast, the mucus threaten ing suffocation, violent convulsive spasms affecting the body, respiration spasmodic, pulse 60, respira tion 12 and abdominal, partial paralysis of the lower limbs, unable to raise his head, mind unimpaired I injected m xv liq ammoniæ, aqua m xv hypo dermically into the bend of the elbow body covered with a cold clammy perspiration A

large mustard poultice was placed over the heart more feeble, breathing very catchy, passed urine and fæces in the bed, apparently fast sinking peated hypodermic injection of hig ammoniæ

the râles seemed less, and the pulse had rallied in

quality, becoming firmer and being 68

Convulsive seizures less frequent, râles diminished and general improvement Gave draught of m ix liq Ammoniæ, swallowed with much difficulty At this point a man of his caste came to pray over him, and before I could stop him, placed his mouth to his ear and commenced blowing into it with great violence The patient at once had two or three violent convulsive seizures, all the improve- Medical Gazette, Dec , 1887 ment vanished, the pulse became almost imperceptible and respiration about 6, the jaw dropped, and he seemed in articulo mortis I left him at 4.20 PM expecting every gasp to be his last, and instructing the Hospital Assistant to inform me of the time of his death, and directed a repetition of the draught in case he should by any chance rally

4 20 PM —In statu quo The Hospital Assistant gave another ammonia draught Patient became

drowsy, spasms less frequent

4 30 PM — Respiration very shallow, patient seemed to become comatose, but suddenly he rallied and from this time improvement steadily continued, the pulse gradually improving, and at 6 P M was 78 Experienced great difficulty in swallowing, but by 8 PM this had passed

in the shape of oz 1/2 of country spirit every onehalf hour for two doses in a like quantity of water, the next day his temperature was 101 20, arm much swollen, saline mixture, and fomentations prescribed There was no ulceration from the hypo-

dermic injection of ammonia

Note -The bite was a genuine cobra-bite, the bitten in the presence of the Hospital Assistant patient, he was so rapidly sinking that I determined venous circulation of his jaws "

As an example of what may be effected through vouching for the correctness of every detail ammediately killed by another of the servants suspected the poisonous nature of the snake

amateur photographer) into the puncture, and 3 PM -- Convulsive spasms more severe, pulse tightly bandaging the leg in two places above the wound Three glasses of raw whisky were also ad-By this time a horse and trap had been ministered got ready, and the man was driven to the Bandora 3 30 PM —Breathing had almost ceased, although dispensary, where he was immediately attended to The wound has since shown no serious effects, and the malee is nearly well enough to résumé his work 3 45 P M —Respiration 12, pulse 70, and improved The snake has been sent to Mr Phipson, Honorary Secretary of the Bombay Natural History Society, who has written as follows "I am sorry to say it is undoubtedly a Russell's Viper, Daboia elegans" The malee, therefore, owes his life to the prompt measures that were taken on his behalf, and the manner in which fatal consequences were averted is worthy of being brought to public notice - Indian

INTRA-TRACHEAL SPRAY -DR A F MODESTOFF has published as a graduation dissertation an account of some investigations made by him in Professor Sushchinski's laboratory in St Petersburg on the administration of powerful drugs to dogs by means of spraying into the lungs from the trachea The instrument used was something like a hypodermic syringe needle with a lateral orifice, this needle was connected with a small spray apparatus, the reservoir being in the form of a test tube and graduated so as to show how much of the liquid had been used of course, it was difficult to prevent the animal's struggles from interfering with the operation, it was found advisable, after shaving the front of the neck. to expose the larynx and to fix it The needle was The treatment now consisted simply of stimulant then inserted into the trachea so that the orifice should look downwards When water or indifferent solutions were used no effect was produced on the respiration or blood pressure which was taken in the femoral artery When, however, solutions of active drugs-such as curare, strychnine, cocaine, and atropine—were employed, a very prompt effect was produced, frequently in about ten seconds wounds of both fangs being visible, and the man was found, too, that the effect was greater as well as more prompt than when the same doses were admin regret that Dr Richard's treatment was not more istered by the mouth, the rectum, subcutaneous inminutely carried out, but when I was called to the jection, or even than when introduced into the Of course Dr Modestoff does on hypodermic injection of ammonia Had not the not propose that under ordinary circumstances this untoward conduct of the native priest produced the method of administering medicine should be adopted desperate symptoms stated, I am confident the man for human beings, but he thinks that it may possibly would have recovered without the terrible convulsive be advantageous where prompt action is of the last seizures produced by this bit of fanaticism, the man importance—as, for example, in some cases of poisexplaining it was "to keep his teeth from falling out oning, and in hæmoptysis, where other methods of treatment have failed He quotes, also, the experience of Jousset, who, as long ago as 1874, saved the presence of mind in the case of snake-bite, a Bom-lives of two patients suffering from a very grave form bay paper gives an account of the following incident, of malarial fever by injecting a solution of quinine On into the trachea He also suggests that in cholera Thursday evening last the males of a bungalow at the physiological solution of chloride of sodium Bandora was bitten on the foot by a viper, which was might be employed in this way Again, in cases of His disease of the respiratory passages where tracheotomy master was fortunately standing by, and he at once is indicated, he thinks that perhaps the intra-tracheal He spray might sometimes serve One observation was took the most prompt measures, injecting strong am- made on a human patient, a man on whom trachemonia (which was at hand, as the gentleman is an otomy had been performed for Stoerck's blennor-

A single spraying of a fluid ounce of the dejecta were the only symptoms physiological solution of chloride of sodium, at a even the above were absent, and the diagnosis was temperature of 60° C (which previous experiments) not made ante-mortem. The prognosis of hæmatoma had shown to give a spray of about 38 5°, or a little is bad, the patient dies of hæmorrhage, or the in above the temperature of the healthy body), was creasing size of the tumor, or from pressure effects sufficient to cause a quantity of inspissated crusts to on adjacent viscera be coughed up, with the result of making the patient thus far (Thiersch and Gussenbauer) has consisted feel very much relieved several times, causing no inconvenience or unpleas-An interesting table is given by Dr ant symptom Modestoff, showing the change of temperature caused by the formation of spray Thus the temperature relieve the patient supposed at the time to be suffered the room being 20° C, that represented the only ing from strangulation of the gut Post mortem temperature for the liquid which underwent no change, or at which the temperature of the spray was 100 per cent of that of the liquid in the reservoir When the liquid was 15° C, the spray was at the first half-minute 17°, at the second 18 5°, and at the third 18 5°, the maximum percentage of the original temperature shown by the spray being 123 Of course, when the liquid was warmer than the air the process of atomization cooled it, so that a liquid of 40° C gave a spray of 32° during the first half minute, and laparotomy was performed for the relief of symptoms of 31° during the second and third half-minutes-1e, it was cooled to 80 per cent of the original cases of compression of the common gall duct by temperature, while a liquid of 90° C fell to 50 5°-1e, to 57 per cent This shows that care must be taken to ascertain the effect of the process of atomization on the temperature of the liquid before arranging the details of the operation - Lancet, March 17, 1888

COMPLICATED DISEASES OF THE PANCREAS AND THEIR SURGICAL TREATMENT -KARL HAGENBACH records two cases, one of hæmaturia and another of carcinoma of the pancreas The literature of diseases of the pancreas is studied at length number of operated cysts of the pancreas now reaches thirteen Of fifteen cases tabulated by the author eight were males, the ages varied from 16 to 46 years The duration of the disease is chronic, it was shorter by several inches and in some of the cases the symptoms extend over stand, the left knee would touch the right, and the a period of five to twelve years The prominent symptoms in all cases were oppression or pain in the epigastrium, eructations, vomiting, irregularities of the bowels, and extreme emaciation With all this there was a tense, elastic tumor in the upper abdominal region with pseudo-pulsation Kuster lays stress on the presence of a moderate amount of blood in the exploratory puncture of such tumors This last element speaks for the presence of pancreas In Kuster's case a venous hæmorrhage into the cyst probably followed the exploratory puncture Hæmatoma (Friedreich) of the pancreas is rela-

tively common (hæmorrhagic cysts of Senn) apoplectic cysts (Friedreich) (hæmatoma of Senn), are rarest occurrences The apoplectic cysts have, until now, been found only post-mortem

Closely allied to the apoplectic cysts both clinically and genetically are the diffuse hæmorrhages into of the hæmorrhagic panereas cysts is in no wise a time, and under chloroform. On the following mornvomiting of blood caused a fatal result. In another fluence of chloroform. We both examined the particle of the capacity and case the appearance of blood in vomited matters and tient. I thought that it was a case of unreduced

In other cases The most successful treatment The spray was repeated in incision, drainage or tamponade Stenosis of the intestine in diseases of the pancreas may result from pressure of the morbid growth in rare cases The alone reveals the true cause of death This rare cause of ileus has received comment at the hands of Gerhardt (Virchow's Archiv, bd 106, h 303) In the author's twelve tabulated cases, nine proved fatal through compression of the gut by the growth In another case the fatal result was caused by a hæmorrhage from an ulceration of the duodenum The diagnosis was not positively made in any recorded case before death. In all the cases where of intestinal obstruction (3) death resulted pancreas carcinoma, the author advises the formation of an artificial biliary fistula-Deutsch Zeitschrift f Chir, bd 27, heft 1 and 2 - Annals of Surgery, May, 1888

> REFRACTURE AND RESETTING OF BONES -- MR KAILAS CHUNDER BOSE, of Amraoti, records the following case

Pana Lall, an up-country man, æt 22, came down from Jeypore with a badly united fracture of the neck of the left femur When he came under my notice I thought his case was one of hopeless dislocation, rather than that of a badly united fracture On comparing the affected leg with the sound one, I found On making him thigh was considerably adducted On my attempt to abduct it, I found I could only do it partially, causing great pain to the poor patient On making him sit up on a charpoy the affected knee would keep four inches in front of the right knee The patient had lost all control over the hmb, he could When laid on his back, not flex or extend it at will the thigh was drawn over the abdomen, there was a considerable amount of lordosis, the interspace between the spine and the bed would be four irches, he could not he flat on his bed, would always prefer to lie on his right side I advised his friends to take him to the hospital, as I then thought that nothing less than resection of the hip-joint would be of any good to him I requested the favor of Dr K Mc-Leod's examining the patient, to find out, if possible, a remedy other than excision Dr McLeod kindly examined the patient, but did not like to give any decided opinion until he had examined him a second In one case the sudden onset of ing the patient was placed thoroughly under the in-

tors, whilst Dr McLeod declared it to be one of rise until the fever ended badly united fracture He would advise them to bring him to the hospital, but they begged of him to do something for the patient at his own house Dr McLeod instructed me to hold the limb firmly, and he himself tried to disunite the badly united fracture In our attempt to extend the limb the union gave way with a loud snap, and the shortening of the limb was at once removed, the knee was extended, and the limb placed on a long splint with a ten pound weight suspended to prevent contraction The joy of his friends was intense, the patient, when he returned to his senses, was happy to find his leg straight. In the course of six weeks I had to remove the splint seven or eight times to change the bandage ends united firmly After a month and a half he was allowed to stand up and try passive motion He regained full control over the limb, and in ten days after the splint had been removed he was quite able to walk with a stick, and in two months he left Calcutta for his country quite happy with the result -The Indian Medical Gazette, February, 1888

METABOLISM IN TYPHOID FEVER IN CHILDHOOD -The urine gives perhaps the best indications of the tissue changes proceeding in typhoid fever, as in any other disease Jacubowitsch (Archiv für Kinderheil, Bd 1x, Heft 1) has made an important contribution to our knowledge of the metabolic changes in typhoid fever in children He insists on the necessity for knowing the actual quantity of nitrogenous material daily ingested, and also the quantity of urine and other excreta, together with the daily loss of carbonic acid and water There is a considerable diminution in the quantity of urine passed during the pyrexial period, but no definite correspondence was noted between the elevation of temperature and week there was a loss which varied from 50 to being only one half of the normal twice the amount of the second week fourth week the normal was still not reached the quantity passed, but this did not always obtain, for in some instances the color was nearly natural The reaction was usually acid—sometimes, however, only slightly As was to be expected, the density of the urine was inversely proportional to the quantity Gerhardt states that albuminuma results from variations in blood pressure due to the pyrexia, but Jacubowitsch does not substantiate this, for he detected of the disease The estimations of the urea dis charged during the disease are very interesting, and appear to be ranged in two classes in one the urea

dislocation shamefully neglected by the local doc- with the continuance of the fever, and continued to The uric acid discharged was found to correspond with the elevation of temperature, and to be greater during the pyrexia of the first period than during the later stages of the disease A diminished excretion of chlorides was noted all through the morbid process The excretion of phosphates and sulphates also was grouped into two classes like the urea, in one the quantity being increased at first, but then lessening by degrees, and vice versa Jacubowitsch believes that the activity of the poison in the blood has more influence in altering the urine than has the fever or the febrile accompaniments — Lancet, April 21, 1888

> Anonalous Ducts of Exit from Parotid GLANDS IN FRONT OF EAR -DR D M CROSSMAN. of Lewisdale, S. C., reports the following case

> I was called to see the children of Mr D, a very wealthy farmer, six miles distant in the country examined his children (four in number), and found that three of them have a small orifice on each side and just in front of the upper portion of the external ear, and that one has only one opening in front of the left ear, and that there is a continous discharge going on through these orifices all the time On close investigation, I diagnosed these openings to be the mouths of small ducts leading from the parotid glands, and that, instead of the secretions being poured out through Steno's ducts at the proper place, they are discharged through these ducts externally, just in front of the external ear Mr D has three children that have not this abnormality, but he has a brotherin law (a brother to Mrs D), who has two children that have the like ducts discharging externallymaking in all six cases, four males and two females, in the same family

I find that whenever the excretions from the parthe quantity of the urine At the end of the first otid glands through these ducts comes in contact with the air, in very cold weather, and when the 200 cubic centimetres, and even to 500 cubic mouths of the ducts are not kept clear and open to centimetres in some cases, the quantity voided give free exit to the grandular secretions, the secre-These diminu- tions accumulate in the ducts and produce glandular tions were rather increased during the second week, irritation, and when opened externally, discharge a whereas at the end of the third week the quantity very purulent excretion I opened up two of the tended again to rise, and in some of the cases was ducts, in each of two of the children, which were During the blocked up, and these discharged considerably As a probed two of the ducts with a small silver probe, rule, the color of the urine was deeper red the less and found that they led directly into the parotid

> I advised the parents to keep the ducts open to give constant and free exit to the secretions, and they have no trouble when this is done, and the discharge, when constantly going on, is so small that it is seldom noticed when kept clean

The family record is unquestionably good through a long line of ancestry, and there is not a shade of no albumen in the urine in his cases at any period heredity in the etiology of these cases - Virginia Medical Monthly, April, 1888

BOROFUCHSIN AS A STAIN FOR TUBERCLE BACILLI discharge was large during the first week, but then -Professor Lubimoff describes, in the Meditsingradually lessened as the disease progressed, in the skoe Obozrenie, a new stain for tubercle bacilli, which other class the discharge of urea gradually augmented he calls borofuchsin It consists of-fuchsin, o 5

gram, boracic acid, o 5 gram, absolute alcohol. 15 grams, distilled water, 20 grams Prepared thus, it has a slightly acid reaction, it is quite clear and not liable to spoil by being kept, consequently it is always ready for use The sputum is dried on a cover glass, and stained by being heated in contact for chronic cases, average time 34 7 days with the borofuchsin for one or two minutes The stain is then washed out by treatment with dilute sulphuric acid alcohol, and subsequently immersed for half a minute | Remèdes, No 5, 1888 in a saturated, alcoholic solution of methylene blue After being washed in distilled water and dried, the examination of the specimen is made in oil of cedar In exactly the or in a solution of Canada balsam same way sections of tuberculous organs may be stained after hardening in spirit, only in such cases the steps of the operation must be somewhat more The main difference between this and other staining processes for Koch's bacilli is that, when borofuchsin is used, the process of washing it out with sulphuric acid is an almost instantaneous All other bacilli are, as when other stains are used, rendered colorless and invisible, the tubercle bacıllı being alone seen — Lancet, April 21, 1888

Cascara Sagrada — Some interesting pharmaceutical facts on cascara sagrada are communicated by Messrs H F Meier and J Le Roy Webber to The active the Pharmaceutical Journal (No 926) principles—the resins of cascara—are not bitter, and form soluble compounds with the alkalies and alka-The glucoside, though the parent or line earths source of the bitter tonic principle, is itself devoid of The glucoside is capable of undergoing decomposition in the normal gastric juice of the stomach, with the development of the bitter principle It is thus possible to prepare a comparatively tasteless product from cascara which shall contain the laxative and tonic virtues of the drug ment, belonging to the class of unorganized and soluble ferments like diastase, pectase, pepsin, papayine, etc, has been discovered in cascara brown resin is present to a much larger extent in aged than in fresh bark, and seems to possess the greatest laxative power The ferment seems to be identical with that existing in numerous other vegetable substances, such as cabbage, liquorice root, frangula, etc -Lancel, April 14, 1888

SCHINUS MOLLE IN BLENNORRHAGIA -- DR E BERTHERAND, of Algiers, records twenty-seven cases of acute blenorrhagia, of from five to twenty days' duration, and seven old cases, of from two to eight months, in which other measures had been used without success, and in which schinus molle was used The pods of the plant, after being stripped of the epicarp, are powdered as fine as possuccessfully sible, and the powder mixed with a very small quantity of syrup of gum This is a very simple way of preparing the drug, and masks its taste and odor, are easily taken with a swallow of water, and are and restores the skin to its normal condition easily borne by the stomach, causing no vomiting, lemainder of the treatment consists of hygienic no diarrhæa, no thirst, and no ardor urinæ, on the measures — Nouveaux Remedes, No 5, 1888

contrary, most patients say that the drug increases These effects make schinus molle very the appetite much better than cubebs Bertherand's table shows that for the acute cases the average time for cure was 11 8 days, average number of pills 26 to 27 a day, pills were given, half in the morning and half in the evening [Bertherand gives no indication whatever The specimen is then washed with of the contents (by weight) of a pill]-Nouveaux

> BOLDIN, A NEW HYPNOTIC -Boldin is the gluco side obtained from boldo leaves, and Dr Junanville highly praises it in a recent number of the Progrès Medical, as a hypnotic "far exceeding opium and chloral" This is saying a good deal for it We are told also that boldin is not disagreeable to take, has no unpleasant effects, increases the appetite, and has a "strengthening" influence on the patient Be tween 5 and 10 grams were given daily to various The sleep induced by this substance is of patients a natural kind, and the breathing is regular and Boldo leaves contain about 3 per cent of tranquil It may be given in capsules in doses of 02 boldin grams (3 grains), repeated as necessary, or diluted I in 20 in water) subcutaneously -British Medical Journal, April 28, 1888

PURPURA HÆMORRHAGIC AFTER A MENTAL SHOCK -DR ED DE SMET, of Brussels, has recently had a case of a young woman of a highly nervous tempera ment who, in consequence of a severe fright, ex perienced an eruption of purpura hæmorrhagica, though she had never had any eruption of the kind before Some four months subsequently, however, in consequence of a fall, a similar eruption made its The treatment was directed mainly to appearance the nervous system, which was evidently very much Dr de Smet refers to M Lenoir, of Lille, affected who has published cases of various skin diseaseseczema, psoriasis, herpes, pemphigus, and vitiligowhich have followed a mental shock - Lancel, March 17, 1888

ERYTHROPHLÆIN IN OPHTHALMOLOGY -M PANAS read a communication on this subject before the Académie de Médecine on March 6 clusions were that the drug, as a local anæsthetic for the eye, is of less value than cocaine, that its aniesthetic action is of longer duration, but the inflammation and the acute pain accompanying its application render it an improper drug for use in operations on the eyes, that if necessary, there is nothing to pre vent the prolongation of cocaine anæsthesia by re peating the cocaine instillations as often as necessary -Bull de l'Academie de Medecine, No 10, 1888

TREATMENT OF MILK CRUST —E BESNIER recom mends putting over the child's head a caoutchouc bonnet, which is removed twice a day to be cleansed and over the face is placed a mask cut out of a sheet This causes the crusts to fall off, THE

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SPONTANEOUS AND CONTACT INFECTION IN PUERPERAL FEVER

Much confusion has arisen in recent discussions of puerperal fever from ambiguity of terms tration of this fact is furnished in the various use of the words, auto infection and hetero-infection evident, however, upon critical examination, that the difference of opinion is only apparent, not real, and is largely dependent upon the fallacy just mentioned

Thus, Ahlfeld urges that the puerpena of the cases of precipitate labor-street labors-collected by Winckel, and the labors experimentally conducted by himself to settle the question, demonstrate that self infection does occur Under self-infection Ahlfeld includes those cases in which "the poisoning substances were on or in the parturient passages during labor, or are formed there during labor and the puerperium, and are introduced into the body of the woman in consequence of the manipulations of physician and nurse, or without these manipulations ' This is the original conception of auto-infection by Semmelweiss ("Innerhalb der Grenzen des ergriffenen Organismus") It is impossible, Ahlfeld believes, to draw a sharp boundary line between infection from without and self-infection, since the materia peccans may be constituted by microorganisms resident in the pubic hair or in the immediate environment He adds that the comparison of the genital tract of the recently delivered woman to a wound cut off from communication with the exterior has been productive of erroneous views It would be better to liken the parturient canal to a contused wound of the surface

Further, that the doctrine of self infecof the body tion does not rest upon the demonstration of the presence within the vagina of pathogenous bacteria, as asserted by Stumpf Every woman who, by reason of pelvic contraction, is unable to expel the fœtus and remains undelivered, dies of blood-poisoning or septic peritonitis, when the lethal issue is not precipitated by hæmorrhage or rupture of the uterus Herein lies the demonstration of the presence within the vagina of every woman of microorganisms which, under certain conditions, are sufficient to cause fatal infec-A demonstration of the same fact is found in cases of sepsis consequent upon abortion, in which no hand or instrument has been introduced within the genital tract

A few weeks since, Professor Heinrich Fritsche made a praiseworthy attempt to clear up this confusion in terms In this, and similar discussions, we beg to remind the reader that "names are to be valued as coins " Fritsch calls attention to the fact that materials capable of causing infection are not found in normal blood nor in intact tissues Solid tissues and blood removed from the healthy living organism by absolutely aseptic methods, and preserved under conditions of absolute sterility, do not decompose Self-infection, in the sense that the agent is resident in the woman's body without gaining access from the exterior, is impossible

Infection takes place in two modes 1 Cocci resident within the vagina or adherent to the skin surface gain access to the puerperal wounds, cause the decomposition of the wound secretions, form ptomaines and condition a resorption fever Infection may occur in this way with or without the intervention of physician or nurse But is this an example of auto-infection? If it is a case of auto-infection, then an abscess in the bladder wall from catheterization, a purulent periproctitis, an alveolar abscess, an infarct in pyæmia, a peritonitis following ruptured pyosalpinx, are all examples of the same process of self-infection Strictly speaking, all of these cases are examples of hetero-infection In every case the agent of infection is introduced into the body of the patient from without

II The other mode consists in the direct infection of the wound by the hands or instruments of the attendants It was this mode that Semmelweiss had chiefly, though not exclusively, in mind when he instituted his prophylactic measures Fritsch expresses the opinion that in these days of rigid antisepsis, the former is by far the more frequent mode of infection This statement may be true of Germany

¹ Berichte und Arb iten Bd. II u III Centralbl. f Gyn 1053

²Deutsche Medicinische Wochenschrift, No 11 1883 p 202

We are under the the case in the United States conviction that the doctrine of Semmelweiss must be enunciated, and enunciated again before this second mode of infection can be excluded in the explanation of the large majority of cases of puerperal fever occurring with us

Fritsch finds the boundary between within and without the body in any intact surface, covered with For example, whatever lies its normal epithelium within the vagina or upon the vaginal portion, but above the epithelial covering, is outside of the body, and constitutes an infection from without

To describe the two modes of infection, just mentioned, Fritsch years ago introduced the terms direct and indirect, primary and secondary infection words spontaneous and contact infection, suggested by Mikulicz and subsequently adopted by Billroth and other surgeons, are preferable

firmly established by modern research, that certain cocci always cause definite diseases, that there is always a definite tissue reaction upon infection with a definite coccus, now proposes the names non-pathogenous and pathogenous infection

But there are obvious objections to the new terms, and these have not escaped the attention of their author

It is possible in cases of non-pathogenous infection, in the absence of therapy, for death to occur, while pathogenous infection under appropriate treat-The criteria of ment may terminate in recovery harmlessness in the one case and fatality in the other are thus plainly false

Moreover, in the present state of our knowledge, it is impossible to draw a sharp line between pathogenous and non-pathogenous bacteria There is no such thing as a puerperal fever coccus in the sense that there is a typhoid fever bacillus Olshausen distinguishes between the coccus of sepsis and the active According to modern views, it is agent of pyæmia in a high degree probable that various species of bacteria may stand in causal nexus with puerperal fever It is well known that this disease has a protean character

Upon the whole, the terms spontaneous and contact infection as now employed in surgery, answer better the requirements of a philosophical nomenclature than any of the substitutes yet proposed tainly these words are less productive of confusion than auto-infection and hetero-infection

The recent discussion of self infection has been of great practical value, since it has again directed attention to the necessity for the disinfection not only

of the fingers and instruments of the attendants, but also of the body and genital tract of the partunent It has taught us to beware not only of the pathogenous bacteria clinging to the hands and instruments, but also to the bacteria, chiefly non pathogenous, adherent to the body or clothing of the par-The discussion serves to emphasize turient woman Credé's3 maxims of prophylaxis (1) not to wound the genital tract, and (2) to preserve from infection the wounds that are unavoidable or already present

THE CHICAGO HUMANE SOCIETY

The Chicago Humane Society held its annual meet-The | ing on May 5 The President, Mr John G Shortall, announced that a new Industrial School for Boys, entirely unsectarian, had been founded, and that since last June 143 boys had been committed to this school Fritsch acting upon the principle, believed to be A total of 224 children have been rescued from the probabilities of a vicious career, and placed on the During the past year the Soroad to self-support ciety has established two new branches in the State, The amount of fines imat Streator and Cairo posed was \$1,837, number of complaints and cases investigated 1,625, children rescued 1,252, children sent to charitable institutions 420, prosecutions for cruelty to animals 78, prosecutions for cruelty to children 17, horses found unfit for service 68, disabled horses removed 93, teamsters and persons reprimanded 560, abandoned animals de-In seven years the Society has rescued stroyed 157 6,715 children, placed 1,544 in institutions, rescued 6,342 horses from drivers, prosecuted 1,045 cases of cruelty to animals, and 314 of cruelty to children So much for the good work of the Society

The President referred to the charges against the employés of the North Chicago Street Railway for cruelty to the horses, and said none of them had developed anything demanding interference naturally, since the charges of cruelty have been made against the company, not against the en-The employes of a company are not responsible for the unfitness for service of animals But if none of these cases used by the company demanded interference, it would be interesting to know what is the Society's standard of cruelty, and Such miserable and totally of unfitness for service unfit horses as have been in use by the North Side company for two months past, and more, would not have been tolerated for one day had a Henry Bergh been at the head of the Chicago Humane Society The pathological horses that may be seen, any and

³ Gesunde und krauke Wochnerinnen, Leipzig, 1886 p 81

every day, attached to the licensed express wagons in Chicago would, under proper and efficient administration of the Humane Society, be permanently retired from service. A painful death would be euthanasia to them, as compared with their life. At almost every hour of the day, and every day, may be seen instances of cruelty to horses at the approaches to the bridges, where already over loaded horses are whipped to compel them to drag their loads over the viaducts. Yet in three years the writer has never seen an arrest or reprimand of a driver of such horses, nor has he ever seen an agent of the Humane Society at work.

Every day hundreds of horses may be seen driven or compelled to stand for hours with cruelly tight check-reins. Does the Society ever take cognizance of these matters? Almost as cruel is the driving of horses, when the mercury is below freezing or zero, with metallic bits, especially when the rubber bit is better at any time than a metallic one

With all this work confronting him, the President of the Society thinks it time that some move should be made against vivisection, and attacked Pasteur in his report, though, as this "attack" is not published in the report of the meeting, it is impossible to guess how much he knows of Pasteur's work. But it is to be hoped that the Chicago Humane Society will not stultify itself by an attempt to suppress vivisection. Wholesome regulation of vivisection, in order to preclude abuse, is undoubtedly desirable, but an at tempt to suppress it shows, to say the least, the presence of a biased and unequally balanced mind

A MISREPRESENTATION CORRECTED

Soon after the meeting of the International Medical Congress, in Washington, in September, 1887, the statement was made by a Washington paper, and subsequently copied into several other papers, and was even repeated from the pulpit, to the effect that \$6,000 of the appropriation of \$10,000 made by Congress to aid in defraying the necessary expenses of the meeting, were expended by the Local Committee of Arrangements for wines and liquors terms of the congressional appropriation required the money to be expended under the direction of the Secretary of the Treasury, that high officer of government has recently transmitted to the Speaker of the House of Representatives, a full itemized bill for the amount, which will be found in this JOURNAL under head of Miscellaneous matters If those who have been so ready to accuse the medical men of squan-

the trouble to examine this bill they will see that not one dollar of the money drawn from the *National Treasury* was spent for drinks or refreshment of any kind

THE CINCINNATI MEETING

The Thirty-Ninth Annual Meeting of the American Medical Association, recently held in Cincinnati, was one of the most pleasant and profitable that has been held during the last decade The arrangements made both for scientific work and social reunions, by the profession of Cincinnati, were all that could be de-The general morning sessions were well attended, and the addresses of the President and Drs Bartholow, Moore and Wallcott were listened to with unusual interest and profit All of the Sections were fully occupied, and some of them held two sessions a day on account of the number and value of the papers to be read and discussed The full official record of the proceedings will be given in The Jour-NAL next week, 26th inst, when it will be seen that the hasty and imperfect reports published by some of our contemporaries contain many and important That show of enterprise which sacrifices correctness in stating the doings of important medical organizations, for a few days of time, is far from being commendable

SOCIETY PROCEEDINGS.

MEDICAL SOCIETY OF THE STATE OF CALIFORNIA

Eighteenth Annual Meeting, held in San Francisco, April 18, 19 and 20, 1888

[Report furnished by the Sacramento Medical Times]

(Concluded from page 597)

THIRD DAY—FRIDAY, APRIL 20

MORNING SESSION

The report of the

COMMITTEE ON MEDICAL LEGISLATION.

which had been made a special order for this session, was taken up The Chairman, DR C E BLAKE, of San Francisco, presented, as the report of the committee,

A MEDICAL BILL,

ment has recently transmitted to the Speaker of the House of Representatives, a full itemized bill for the amount, which will be found in this Journal under head of Miscellaneous matters. If those who have been so ready to accuse the medical men of squandering the public money for strong drink, will take which he submitted for the consideration of the Society. The bill, which discusses the subject at some length, contains several important provisions, and in its general tenor conforms to a resolution introduced by Dr Plummer at the meeting of 1887, and which he submitted for the consideration of the Society. The bill, which discusses the subject at some length, contains several important provisions, and in its general tenor conforms to a resolution introduced by Dr Plummer at the meeting of 1887, and which was adopted by the Society. A board of seven members, to be known as the "Board of Medical Examiners of the State of California," is to be ap-

pointed by the Governor, the conditions of appointment, official tenure and expenses being provided for Every person intending to practice medicine in the State after the passage of this Act, must have a diploma or license from a legally chartered medical school or institution Such school or institution being defined by the Act, and a certificate from the Board of Examiners This certificate can only be obtained by examination of the applicant in anatomy, physiology, pathology, chemistry, toxicology, surgery The fee for the certifiand mechanical obstetrics cate will be \$20, and it must be recorded in the office of the Clerk of the county in which the holder is The certificate may be refused or revoked on the ground of unprofessional conduct, it produced painful tetanic contractions. In labor which is fully defined—the applicant being cited to he believed that it should never be given until the appear before the Board to be heard in his own de-The Act will be printed in full in the Tranfense sactions of the Society

DR H S ORME, of Los Angeles, concurred in the bill, with the exception of section 14, relating to fines, which, as well as the penalty, he thought were too He believed that half of the fine should go This would materially assist the to the informer working of the Act persons who are willing to do this work, and this will compensate them for the service that they rendered

DR H J CRUMPTON, of Sausalito, said that he had had some experience in the working of the medical law He regarded this Act as a decided improve-He thought that ment on that at present in force after the deliberate action of the committee, assisted by the legal member of the Society (Dr Taylor), that it would be unwise to attempt to tinker with it He favored placing it in the hands of the Committee on Legislation, for presentation to the Legislature, and would urge upon every member of the Society the necessity of earnest personal effort in its behalf The people demand that pilots, who bring ships into port, shall have a license, or that a man who takes charge of a locomotive must know something about it, but they seem willing that any irresponsible confidence operator may assume the rôle of doctor

DR G F G MORGAN, of San Francisco, said that several years ago he had attempted to enforce the If there had medical law, but he signally failed been a provision whereby half the fine would go to the complaining witness, there would have been at least fifty witnesses in that community

the fine imposed shall go to the informer, and the other half to the school fund of the State '

THE PRESIDENT suggested that the question might be put, "That it is the sense of this Society that such a change should be made, and that the matter be left in the hands of the Committee with power to act "

This was unanimously adopted

The Committee on

RECOMMENDATIONS OF THE PRESIDENT'S ADDRESS,

through its Chairman, DR C E BLAKE, of San Francisco, reported that the President be commended for the past year, and that the recommendations con- laid down in the report of Dr Lindley, with the poshis zeal and industry on behalf of the Society during to us all

tained in the address, particularly those relating to preventive medicine, be endorsed by the Society The Committee presented a draft constitution and by-laws, to be acted on at the next annual meeting

The report was adopted The report of the

COMMITTEE ON OBSTETRICS

was read by Dr. Walter Lindley, of Los Angeles Formerly, when hæmorrhage indicated the onset of abortion, he administered small doses of ergot He has found that a combination of ergot and morphia, in threatened abortion, had frequently prevented it In inevitable abortion he did not believe in ergot, as uterus was emptied In normal cases he did not deem it necessary, but in cases of flooding used it He believed that topical measures hypodermically After post-partum hæmor were more important rhage is controlled ergot may be advantageously given, but it should not exclude other measures He concluded ' certainly did not hasten involution that ergot should be used only as a hemostatic 1 In every community there are In abortion it can be given combined with morphia, to prevent or delay In labor it should be given only after the completion of the third stage subsequently

DR W A BRIGGS, of Sacramento, in opening the discussion, said that not more than 50 years ago a celebrated surgeon arose before the British Medical Association and exclaimed, "Thank God I know nothing of obstetrics" The retort was as keen as the exclamation, "If the gentleman is thankful for his ignorance he has much to be thankful for " He referred to this to show the position of obstetrics to-day as compared with its position 50 years ago, an advance that must be grateful to us all Pajot, as Dr Lindley has stated, as well as Charpentier, do not use ergot before the uterus is empty Many of our own obstetricians do the same One thing he regards as of extreme importance, because it con firms the conclusions naturally derived from our knowledge of the immediate action of ergot, and that is the result of the clinical studies made by Blanc and Ganzanotti, in regard to the influence of ergot in child-bed Ganzanotti has experimented on 31 cases, He administered ergot during the lying-in period and found that instead of hastening involution ergot really Blanc reports 82 cases DR ORME offered as an amendment, "That half of he administered ergot regularly for the first five days To 12 others he administered ergot for to days, and he found that in this series the uterus had attained a measurably greater involution in the 40 cases in which ergot had been withheld than in the 40 cases to which it had been administered for five days, and in these even a measurably greater involu tion than in the 12 cases to which ergot was given during the full ten days of the lying-in period is in accord with the clinical observations of such men as Pajot, Charpentier, Goodman, Reamy and numerous others whose names are perfectly familiar He was fully in accord with the principle

sible exception of the use of ergot in abortion had been his habit not to administer ergot in abortion The chief objection to its use in this condition is that it is so very likely to imprison the fœtus There are other subjects within within the uterus the scope of this committee which the Chairman has lest to other members, one of whom he believed would present a report on Electricity in Obstetrics There is one point which seemed to him of the utmost importance, and that is antisepsis in labor He believed the great progress in obstetrics within the last year had been accomplished in this direction, and as one who has strenuously advocated antisepsis not only in labor, but in surgery generally, he must confess to great satisfaction in the remarks made in his Birmingham address by that arch opponent of antisepsis, Mr Lawson Tait, who there confessed and asserted that it is the duty of every obstetrician to adopt antisepsis in labor. A very seductive term has been invented by those who, it seemed to him, want to get back into the fold without climbing the fence, and that is the word asepsis The object of antisep-If the believer in antisepsis is certain sis is asepsis of asepsis, his object is attained But those who talk so much about asepsis employ antiseptics for accomplishing their purpose for disinfecting, or, as they might say, "cleansing" their sponges, their hands, their instruments and even their patients. It seemed to him that this is rather quibbling, and that in obstetrics, as in surgery, we should adopt a strict anti-Let us have asepsis via antisepsis

San Francisco was selected for the meeting of 1850

The report of the

COMMITTEE ON MEDICAL EDUCATION

was read by the Chairman, DR J P WIDNEY, of Los The writer believed in the multiplication of schools, but would rigidly fix their requirements, demanding a three years' graded course, and granting only the degree of M B, which would not qualify for A medical department connected with the State University, well endowed, and providing only for the higher education, should be provided The result would would grant the degree of M D be the establishment of one standard of education, and that a high one He would allow any student of medicine, irrespective of his tenets, if well educated through a three years' course, to enter the higher course in the State department. This would result in a better working of the medical law by making the profession a unit

AFTERNOON SESSION

DR A M GARDNER, of Calistoga, read a paper on

Electrolysis in Stricture of the Urethra

DR W P GIBBONS, of Alameda, read the report of the Committee on Indigenous Botany He treated of the medicinal plants peculiar to the State, and mentioned the fact that some of the modern "new

vices of Dr Gibbons, both to the profession at large and to the Society, were justly recognized The report of the

COMMITTEE ON PRACTICAL MEDICINE AND MEDICAL LITERATURE,

was read by DR S O L POTTER, of San Francisco He alluded to the tendency in force to confine prescribing to a single drug, and remarked that the routine prescription of former days is disappearing mentioned the increasing number of coal-tar products and to the possibility, as expressed by Brunton, that these artificial products might ultimately replace the organic drugs He expressed the opinion that the germ theory of disease was at present not accepted The two objections were, first, that in experiments it was never absolutely certain that portions of the culture fluid might not be transferred with the microbe, it was also uncertain what the exact nature of the soil

on which the transportation was effected

DR W F McNutt, of San Francisco, in opening the discussion, said that he would allude to two points. the slow progress of the science and art of medicine. and the part that microorganisms play in disease The reason why the science and art of medicine has progressed so slowly, is probably not the fact that we run from one new medicine to another, as Dr Potter would make us believe, but that we have been trying to develop a science by merely developing the art, or the practical part of it. There is a science and art of medicine, and the application of therapeutics is The great suture for our science is largely an art preventive medicine, and the road along which the science of medicine must be developed is pathology The key note to preventive medicine and the study of pathology, is etiology, and etiology is a new science Etiology has been studied but a few years In our student days we heard nothing of etiology, yet we can say that it is absolutely impossible to understand or develop the science of medicine or to understand pathology without etiology Etiology, then, is the key of the scientific part of medicine No matter what we may believe about microorgan, isms, etiology cannot be advanced without taking them into consideration There is a fact in it that must be admitted or disproved, while the methods of investigation may, and ought to be, questioned, while much of it cannot be substantiated, yet, step by step, it is making way For instance the doctor mentioned actinomycosis What could the pathologist do for that without understanding its etiology? We find a few abscesses, perhaps, about the angle of the jaw, and we talk of blood poisoning, but the microscope shows us the microorganism—the spreading fungi and the actinomyces-and then we understand the pathology of that disease Take what we used to call endemic hæmeturia—How much did pathology and therapeutics do to explain it until the etiology of the disease was discovered. When we found that the parasites that produced it were confined to places remedies" had been in constant use for many years in Egypt, Mauritius, Cape of Good Hope and other DR M M CHIPMAN, of San Francisco, made a places, then we understood the pathology and the treatment of this affection Take uræmic poison supplemental report in which the long continued ser- What did pathologists do to explain it until we understood that uræmic poisoning did not depend upon urea in the blood or upon ammonia, but upon the fact that the epithelial lining of the uriniferous tubules failed to secrete urea from the excretions that were producing the symptoms? Then we understood the etiology and the whole thing was perfectly plain The path along which pathology must be developed and scientific medicine must be advanced, will depend upon our progress in the study of etiology

DR J H STALLARD, of San Francisco As the question before the meeting seems to turn somewhat on the advancement of medicine, I probably may be permitted, as one of the oldest members of the profession present, to take exception to the position of the Chairman of the Committee, and also to that of the gentleman who has opened the discussion When I look back, I am sorry to say, very nearly fifty years, since I was a student, it seems to me that in no profession, and in no department of science has a greater progress been made than in the art and science of the profession to which we belong I remember perfectly well seeing one of the most distinguished physicians in my native city under the delusion that he was suffering from congestion of the brain, the result of long and arduous work, with twenty-four leeches around his head, and a considerable number of empty bottles, the contents of which he had consumed himself have seen the time that that gentleman thought it his duty to prescribe a quart bottle of medicine for a child 4 years old, and when no physician visited a patient, whether two or three times a day, without writing a fresh prescription, and, I say, that in this particular, and in many others, there has been a vast It is forty-five years ago since I was the progress first practitioner in my native town to discard the principle of being paid by the amount of physic that I poured into a patient's throat, but it was the most unfortunate piece of business I ever did in my life, for I destroyed my practice for a considerable length People only desired to pay for what they swallowed, and physicians would prescribe four doses of medicine a day, two to be taken at night time, with an embrocation, a lotion and a blister that has now passed away In my opinion, there is a great advancement in the art of medicine, and I do not think we have anything to be ashamed of in the progress we have made in the last forty or fifty years

DR A ABRAMS, of San Francisco, believed that Dr McNutt had slightly exaggerated the benefits derived by practical therapeutics from our advanced knowledge of the etiology and pathology of diseases Uræmia having been mentioned, he would take this The etiology of uræmic intoxication as an example can, for all practical purposes, be explained by the ingenious mechanical theory of Traube, or the more The chemical theory ingenious theory of Frerichs of Frerichs supposes that the retained urea in itself does not produce uræmia, but only by its further conversion, by means of a ferment, into carbonate of ammonia There is much clinical evidence in sup port of this theory, and it is accepted by most authors tion of acids would at once neutralize the ammoniacal to be fully equal to that of any other medical college, condition of the blood and cure the disease How and the only point to which he would particularly

successful we have been with the acid treatment needs no comment To get rid of the retained products of tissue metamorphosis by the compensatory emunctories constituted the old treatment, and it would seem to be but little modified by the recent develop ments of pathology Because we know that the epi thelium lining, the uriniferous tubules does not prop erly secrete, is but little aid to our inefficacious Bacteriology has held out more seductive inducements to therapy than any other development of medicine, and it is a sad commentary on medical science to find how disappointed we have been Although we cannot deny the benefits afforded by antiseptic medicine, the good achieved belongs rather to prophylactic than to curative medicine course or duration of the infectious diseases, where pathogenic microbes have been recognized as etiological factors, have been but slightly modified by a practical therapy founded on bacteriological investi gations Our more recent knowledge of bacteriology relegates the microbes to a secondary place, attribu ting the pathogenesis to the development of ptomaines To oppose the virulent action of these ptomaines constitutes, then, the future basis for rational therapy The speaker suggested the use of the term ptomaine mia to designate that condition following the absorp tion of the ptomaines

On motion, the Society decided to subscribe for one copy of the Index Medicus, to be placed in the

hands of the Secretary

DR C Cushing, of San Francisco, read the report of the Committee on Gynecology, on the subject of the Condition of the Abdominal Organs Requiring This must sometimes be done Abdominal Section Cases of extra for purposes of accurate diagnosis uterine pregnancy required operation This was fre He reported a quently diagnosed at an early date case of suppurating pelvic hæmatocele which was not cured by drainage through the vagina, and re quired section Section should be performed in these cases, as it ensured thorough cleansing and persect drainage A prolapsed, fixed and tender ovary should, under certain circumstances, he re He ascribed many of the attacks following examinations by sound or other means to the expul sion of some of the secretions from the diseased He believed that tubes into the peritoneal cavity these cases required operation In uterine fibroids where hæmorrhage was serious, or if the tumor was He believed that large, operation was demanded with due precaution any intelligent practitioner was justified in an emergency in performing these opera tions

EVENING SESSION

Committee on Graduating Exercises -Dr 0 0 Burgess, of San Francisco, reported that forty four students had been graduated from the two colleges in San Francisco A thorough examination of the papers had been made, and he was satisfied that the diplomas were fairly earned The standard appeared

call attention, was the necessity for more thorough preliminary education. It was also recommended that in future one member of the committee be resident in Los Angeles, so that the medical college of that city might also be examined. The Society, by resolution, endorsed the recommendation

A Meateo Legal Board — The proposed amendment relating to the establishment of a Medico-Legal Board was brought up for discussion, and on motion was referred to the special committee on Constitution and By-laws Several members objected to the amendment on the ground that it involved the Society, hampered the Board of Examiners, and had proved a failure in other countries

INSTALLATION OF OFFICERS

The business of the session being concluded, the retiring President, DR R H PLUMMER, addressed He alluded to the responsibility and the Society the labor which the presiding officer necessarily as-To him it had been a source of anxiety, Two years ago the Society but also of pleasure numbered but 200 members, at the close of this The contributions had meeting it included 450 Three years ago the been numerous and creditable annual meeting lasted for two days only, and the evening of the second day was devoted to a banquet On this occasion it was found that three days were not sufficient, and the question of a four days' session would have to be considered He alluded to the number of visitors from the southern section of the State, and to the number of applications for membership which had been received from that locality, and expressed the opinion that the meeting of 1890 would be held in Southern California thanked the members for their hearty cooperation during the year and at the meeting In introducing the President-elect he alluded to his faithful services in the cause of the society, and to his conscientious and thorough discharge of the duties that had been assigned him

DR James Simpson, the President elect, in thanking the Society for the honor which it had conferred upon him, said that he fully realized its responsibili-He alluded to the reorganization of the Society in 1870, when it seemed more than doubtful that it would ever attain its present proportions He said that the officers elected were expected to sacrifice their time to the Society, and that they must give it all the attention that it demanded He concurred in the opinion of Dr Plummer, that the meeting of 1890 would be held in the South State was a large one, and members must expect to travel considerable distances In conclusion, he promised to use every effort on behalf of the Society, and to do good and faithful work

New Members —At the different sessions the following were duly elected members of the Society

Adams, George Alford, F. A. Anderson, A. Bailey, J. E. Barber D. C. Bicknell, 1. D. Booth, Jas. P.

Mack, W E
McGonagle, Beverley
Maynard, H H
McDougall, W D
Melton, Lewis
Merritt, Emma S
Merritt, Geo W

Borde, H J Boyce, J F Brainard, H G Brummet, S B Curpenter, Lewis Cook, Wm Harris Crepin, E A Darling, A F Davis, T A Dodge, Wm DuBois, H A Foote, Gilbert Forrest, John M Hart, A J Haynes, I L Hogshead, A Holland, L T Johnson, Chas M Jones, Caleb V Knox, S P P Kurtz, James Larkin, John Lasher, Geo W Leonard, J T	Miller, J H Murphy, W W North, Thos Northup, D B Otto, G W Paterson, E M Pearson, J E Pond, R B Posey, A C Reading, J W Rogers, A C Senftleben, Hugo Siefkes, John I Smith, E R Snider J R Shearer, M M Stockton, Thos C Szigerthy, A C H de Taylor Albert M Todd, J C R. Thomas, George P Trembley, F \ Valle, Charles C Wharry, Charles J
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THE EXHIBITION

A spacious room, adjoining the large assembly hall, was well filled by the various firms who were anxious to attract the attention of the Society. This feature was a great success—in fact it proved so attractive that on several occasions during the meeting committees were appointed to bring in the members who were sampling the junket and cocoa and stocking their pockets with pills and powder, baby food and concentrated nutriment for all ages.

OBSTETRICAL SOCIETY OF PHILADELPHIA

Stated Meeting, Thursday, April 5, 1888

THE PRESIDENT, T M DRYSDALE, M D, IN THE

CHAIR

(Continued from page 530)

Dr Parish presented the

SPECIMEN OF A STRANGULATED OVARIAN CYST

The patient was not aware that anything ailed her until one night she was seized with intense abdominal pain and, jumping out of bed, rushed about the house screaming with the suffering Dr J H Musser was sent for and gave her a hypodermic injection of mor-The dose had to be repeated frequently, and in two days the pain began to subside, it being altogether gone in five days The temperature remained nearly normal until the fourth day, when it was found to be 103°, and was the same on the next day, the day of operation A notable fact is that the temperature and pulse both rose steadily while the pain as steadily decreased after the third day I saw her on the fourth day, and agreed with Dr Musser that we had an ovarian tumor with a twisted pedicle to deal with Because of the absence of the husband the operation was not performed until the next day, January 17, 1888 The tumor was found to spring from the left ovary and was very black, in this respect differing entirely from an ordinary ovarian cyst The contents were those of an ordinary cyst with coagulated blood in addition The pedicle was twisted three times and was quite soft and black emptying the tumor he untwisted the pedicle and transfixed it below the point of twist, and the tumor was removed The recovery was very rapid, the temperature going down steadily The drainage-tube was removed on the second day The patient is now entirely well

Twisting of the pedicle is a well recognized accident to ovarian tumors, but the cases do not all present such marked changes as this case did specimen as it lay on the plate presented a marked contrast to the cyst lying beside it, and which had been removed a few days before from the broad ligament

In connection with this case he would report one operated on three months ago The woman had complained of sudden intense pain in the pelvis and was confined to her bed from that moment, she had remained in bed for over two months with general peritonitis A number of physicians had attended her, and one of them had introduced an exploring needle into the abdomen She was extremely exhausted and had a constant temperature of 103° or higher An incision was made above Poupart's ligament, and opened into a tumor It was found to contain pus and coagulated blood. Its cavity was cleansed out a consequent polyuna. And, in addition to this, the and the incision closed around a drainage-tube cyst walls were very thick. It was a blood cyst, but transudation of fluid through the amniotic covering it could not be determined at the time with certainty whether it was intra- or extraperitoneal, but it was believed to be intraperitoneal In three days strangulation of the bowels developed with fæcal vomit-The bowels could not be gotten open, and a second operation was proposed on the next day, but was refused by the friends On the day after, however, a second incision was made from a point under impossible task, so that the excess of liquid had to the spleen towards the old incision above Poupari's be gotten rid of by excretion and transudation into There was a distension of the abdominal the amniotic sac walls in the lumbar and hypochondriac regions Great pain under the spleen had developed intestines were found adherent in a mass, and three | sis large bands were found to extend from the region The of the spleen to the right inguinal region adhesions were broken up and these bands were No irrigation was used ligated and cut off whole wound was closed, and a large piece of adhesive plaster was placed over it to protect it from the discharges from the lower and first incision valescence was slow, but had finally terminated satisfactorily

DR BARTON HIRST reported

TWO CASES OF HYDRAMNIOS

The etiology of hydramnios is so obscure that, according to Bar 44 per cent of all cases admit of no explanation Every case, therefore, that can be a woman with an adherent placenta and post partum traced to a distinct cause must possess some degree of interest

Case I -A young primipara was brought to the maternity pavilion of the Philadelphia Hospital in the first stage of labor External examination showed been killed by the fall, they further asserted that the an enormously distended abdomen of a globular shape, afterbirth had not come away A vaginal examina giving distinct fluctuation Internally the os was about tion showed no trace of cord or placenta, the hand,

the size of a dollar An amniotic sac, very tense, filled up the greater part of the pelvis, to one side and above this could be felt a small feetal head, evidently macerated, covered by its membranes with no intervening liquor amnii The diagnosis was plain twin pregnancy, hydramnios of one amniotic sac, which was acting as an obstruction to labor by preventing the descent of the fœtus contained in the normal sac The distended sac was ruptured The edges of the rubber sheet upon which the woman lay were gathered up and all of the escaping fluid was caught It measured 5 quarts The macerated fcetus was then expelled and a living one followed soon The latter corresponded in development to about the eighth month of pregnancy, the former had apparently died at an earlier period of intrauterine life The woman said that until within five weeks she had noticed nothing unusual in her condition, but that since that time the abdomen had rap idly increased in size, without, however, causing her much inconvenience To explain this case of hydramnios Werth's theory must, I think, be called According to this observer, an hypertrophied placenta, in absorbing more fluid from the maternal blood than the fœtal economy can dispose of, brings about hypertrophy of the feetal heart and kidneys and The increased pressure within the umbilical vein favors a of the placenta In the case under consideration the placenta was quite double the size of a normal single one, with extensive anastomoses between the two sets of fœtal vessels One feetus having died, the other was suddenly called upon to deal with the very large quantity of fluid abstracted from the maternal blood by an enormous placental surface—an

Case 2 — Hydramnios in a multipara, with serious Mitral regurgitation and aortic steno-The | heart disease The quantity of liquor annu was estimated to be 4 quarts

If one accept Tarnier's idea all cases of hydramnios may be divided etiologically into two broad classes, depending either upon over-production of liquor amnii or upon insufficient absorption of the amniotic fluid In the latter division it would seem The veins were that one should put this case choked with blood, the circulation was sluggish to a degree, and if it is true, as it seems to be to my mind, that some of the liquor amnus absorbed by the maternal vessels, the absorption here was reduced to a mınımum

DR HIRST also presented the following report I was recently called by a medical student to see

I found the patient almost exsanguine, hæmorrhage The woman's friends declared and the fœtus dead that the baby had been born while the woman was on her feet, had dropped upon the floor and had centa glued fast to the uterine wall and so tightly adherent that considerable force was necessary to The cord had been torn away from the fœtal surface of the placenta, leaving a spot about the size of a dollar bare of amnion The large branches of umbilical vein were torn across

Dr J Price made a

COMPARATIVE REPORT OF HOSPITAL AND OUT-DOOR **OBSTETRICAL CASES**

I do not wish to discuss at length the old question of home vs hospital practice in obstetrics whole matter has been fully discussed and some excellent books published on the subject Maternity hospitals must exist for destitute women when they To compare the need both shelter and assistance results in out-door practice where patients reside in unsuitable and unsanitary locations with the results of a well organized maternity hospital is impracticable without an immense amount of labor and statistics

We all struggle to secure the prevention of deaths during childbirth The diminution of maternal mortality is the chief object of our obstetrical art

In an established maternity hospital we find difficult and complicated cases, a constant quality in a class of patients particularly prone to accidents in-This class of cases, particucident to parturition larly among the poor, cannot receive the attention of trained attendants at their homes, and hence are admitted to hospitals because skill can do more there in averting danger and death. There are many cases which foil the most consummate skill Again, there are simple complications which defeat the inexpenenced physician and the midwife

In the "Retreat" I aim at the highest degree of surgical cleanliness Distance dirt and all goes well All effete matter and refuse is removed at once from the building The air in the wards is kept in mo-Every attention to matters of detail, especially to kindly and cleanly nursing, is insisted on I have never been able to understand why the results of out door practice among the poor, who have inadequate means of procuring the necessary comforts of life even in health, and who have made no provision for themselves for childbirth, should be perceptibly better than the results in hospital practice am aware that the statistics of out door lying-in patients have been pronounced wholly worthless and In order to satisfy my own mind in regard to this question I have made careful analysis of the cases coming under my own practice during a period of almost three years

The rule in regard to dispensary cases has been attendance by graduates or students of medicine during confinement and recovery, for at least ten days and in the same manner as in private cases, all complications requiring the presence of myself or some one with experience. This rule has been care fully enforced All accidents in cases of difficult labor have been due to delay in asking for assistance Delay is dangerous, promptitude is everything

HOSPITAL PRACTICE, PRESTON RETREAT Number of confinements, 101, vertex presenta- living

however, passed into the uterus, discovered the pla- tions, 98, breech presentations, 2, missed labors, 1,6 induced labors, 2, contracted pelves, 2, syphilitic mothers, 3, syphilitic children, 3, children dropped in gutter, 1,1 placenta prævia, 2,23 lacerated perineums (closed) 6, forceps delivery, 9, version, 2 Multi-para, 74 Primipara, 27 Previous miscarriages I had 19, 2 had 4, 3 had 3, 5 had I No deaths Boys, 54, girls, 48, twin labor, I Still-born males, 2, * still born females, 2 Hare-lip, 1 Cleft palate, 1 PHILADELPHIA DISPENSARY, OUT DOOR DEPARTMENT

> Confinements attended, 758 Vertex presentations, 738, breech presentations, 9, foot presentations, 6, shoulder presentations, 3, face presentations, 1, transverse presentations, 1 Complex labors, 1, induced labors, 2, twin labors, 3, forceps deliveries, 24, version deliveries, 4 Adherent placenta, 9, retained placenta, 2 Rachitic pelves, 2 (one craniotomy and one forceps delivery, death) Contracted pelves, 3 Large head, 2 Double inguinal hernia, mother, I Dropsy of amnion, I Uterine fibroids, Prolapsed cords, 3 Placenta prævia, 4 Atresia of cervix, i

ACCIDENTS OF LABOR

Lacerated perineum and cervix, not closed, 10; closed, 19 Delivered at stool, 1, delivered on floor, 1, premature labor, 7

MOTHERS

Pregnancy —Primiparous, 191, second, 136, third, 99, fourth, 61, fifth, 65, sixth, 45, seventh, 37, eighth, 30, ninth, 28, tenth, 21, eleventh, 5, twelfth, 7, thirteenth, 3, fourteenth, 2, fifteenth, 1, sixteenth, 1, seventeenth, 1, eighteenth, 1

PREVIOUS MISCARRIAGES

One miscarriage, 104, 2 miscarriages, 48, 3 miscarriages, 14, 4 miscarriages, 9, 5 miscarriages, 5, 6 miscarriages, 3, 7 miscarriages, 1, 9 miscarriages, 1

Deaths -Septicæmia, 2, pneumonia 1, died undelivered, 3, placenta prævia, great hemorrhage, Mortality, 005 per cent tampon, 1

CHILDREN

Males, 395, females, 334 Still-born males, 22; still-born females, 13

Died during attendance Apoplexy of the cord. 1, hæmorrhage of bowels, 1, debility, 3

These patients were all attended at their own homes

DR HIRST said that the speaker was to be congratulated on the low mortality of the out door cases He had himself some months ago collected statistics. of the American hospitals and of general obstetrical practice, and had been convinced from this and other investigations that the mortality of parturient women

¹ One child was dropped in the gutter as the mother alighted from a carriage to enter the hospital No injury to child or mother. As there had been no antiseptic preliminary treatment the case was carefully watched. No symptoms of septic trouble set in patient was absolutely comfortable during convalescence. Neither doctor nor nurse were responsible for the accident.

¹ Membranes punctured No hæmorrhage when head and was assisted by forceps.

Patient exhausted by loss of blood and extreme meat of any assisted by forceps
3 Placenta prawia centralis. Version and delivery twenty minutes after admission. Hand not withdrawn after introduction for examination. Hamorrhage great patient exhausted
4 Dead probably one month before delivery due to fall in cellar
5 Foot protruding from vagina when admitted. Forceps. Child

in the latter class was about I per cent 10,000 cases collected in England the mortality had

been 95 of 1 per cent

DR LONGAKER thought that, in consideration of the small number of times the forceps had been used, the fœtal mortality of the out-door cases was not sur-Had the forceps been used more frequently Not more than the death-rate would have been less about one child out of fifty should be born dead

DR WM GOODELL read a report of his

CASES OF LAPAROTOMY DURING THE YEAR 1887

He had 53 of them, as follows

Ovariotomy-27 cases, 22 recoveries, 5 deaths Oophorectomy—19 cases, 18 recoveries, 1 death Hysterectomy—1 case, 1 recovery

Malignant tumor of omentum-1 case, 1 death

Pelvic abscess—2 cases, 2 recoveries

Exploratory incision—3 cases, 3 recoveries Total

53 cases, 46 recoveries, 7 deaths

He showed a table giving the name of the medical attendant of each case, and the place and time of the

operation With regard to the fatal cases the first one was a case of malignant papillary cyst of both ovaries, by which every abdominal organ seemed to be infected Bleeding intestinal adhesions needed several ligatures and the application of Monsel's solution mountable obstruction of the bowel took place and drainage-tube put in In the case of hysterectomy,

the woman died on the seventh day

ingly fat woman, weighing 254 lbs, who could not walk without assistance. The area of raw surface made respectively for sarcoma of the womb and ova made by the deep and long abdominal wound was ries, for malignant disease of the intestines, and the most extensive Dr. Goodell had seen Both ovanes being diseased, were removed, they had contracted adhesions to the abdominal wall, and the larger weighed only about twenty pounds The lady was not again seen by Dr Goodell She died on the the operation was performed to make out a positive

fourth day from peritonitis

The third case was a forlorn hope At the time of the operation she had septicæmia, she was delirious and very ill indeed, and suffered great pain By her shrieks she disturbed one whole floor of the University Hospital, although she was on that ac-The cyst was count confined in a remote room intra-ligamentary and was adherent to the abdominal wall, the intestines, the stomach, the aorta, the All the adwomb, and to the whole pelvic basin hesions but the pelvic ones were severed, but the latter were not touched, as the woman seemed to be dying, and it was apparent that she could not survive the shock of a completed operation Many stimulating hypodermic injections were given during and after the operation, but she never rallied and died seven hours later The fourth was a bed-ridden and very emaciated woman, in whom the cyst had burst several weeks before, and she was being slowly poisoned by the absorption of the colloid matter. The cyst had universal adhesions and every abdom-The peritoneal cavity inal organ seemed infected The patient died on the was flushed and drained eighth day from sheer exhaustion

took place in a case of putrid and rotten dermoid The woman was also bed-ridden from septi-During the operation, while very firm ad cæmia hesions were being severed, the cyst wall was torn and a very small quantity of the offensive fluid es caped into the abdominal cavity This was flushed and drained, but the lady died on the fifth day from septicæmia

Of the nineteen oophorectomies there were an un usual number of difficult cases, both on account of adhesions and of the size of the fibroid tumors, for In the sole fatal which the ovaries were removed case death was due to uræmia from suppression of the urine, unsuspected kidney mischief probably

having previously existed

Of the seven remaining laparotomies, one resulted in death on the forty-eighth day. It was a case of malignant solid tumor of the omentum, causing as citis and excessive pain, from which the patient had been confined to her bed for many weeks great vascularity of the parts and the very extensive adhesions to the bowels made the operation a diffi For two weeks the patient did well, then cult one large abscesses burst out of the wounds and into the intestines, and the drain destroyed her life on the forty-eighth day after the operation

In the two cases of pelvic abscess the sac was sewed to the lips of the abdominal wound and a a two pound subperitoneal fibroid of the wound was The second fatal case was in a short but exceed- removed, on account of pain and vesical irritation The three exploratory incisions were for a fibroid of the womb intention to remove the ovaries, but on account of very firm and deeply seated adhesions, those organs In the other two cases of the could not be reached exploratory incisions, malignancy was suspected, but

Among the twenty seven ovariotomies there was a larger number of difficult cases than usual, nor had he refused to operate in any case offered him. In sixteen both ovaries were removed Twenty three had adhesions, and drainage was resorted to twelve In three the adhesions were universal, in six firm intestinal adhesions existed, while in three the cysts were intra-ligamentary, presenting very formidable obstacles to their removal last cases the result was successful, although the wound had to be reopened four hours later to stop a deeply seated hæmorrhage, and although a fæcal fis tula was established by injury to the rectum

DR KELLY remarked that he had been especially pleased with the careful consideration given by Dr Goodell to certain points in the handling of abdominal cases, which were too often looked upon as a minor matter in the treatment, but are after all the One of the most important of all matters is the checking the hæmorrhage from ad A satisfactory way of checking hæmorrhage from smaller areas on the ab-The fifth death dominal wall is by passing a needle under the periTaw surface to raw surface to ivory rods on either side of the skin-flap thus Fallopian tube, he had checked the bleeding by a weeks ago series of ligatures enclosing the whole broad ligament from its pelvic attachment to the uterus, introduced entirely beneath the raw surface

A practical point of the utmost importance upon which he would insist is that when the bleeding is there has been much stripping of peritoneal adheried off at once by the peritoneum it forms an excel-The drainage most sure to enter at any operation

tube meets this danger

He has had a good many cases of rectal fistula which have been very troublesome, but the tendency here seems to be to heal the tendency of the ulcers to form rectal adhesions by the first incision cases the wall between the abscess and rectum must be very thin The best after-treatment in abdominal cases is to put them in the hands of a trained nurse, and leave much to her judgment

Dr Goodell liked to give credit to his fellow countrymen whenever he could, and if he was not mistaken the credit of first doubling peritoneum on itself and maintaining bleeding surfaces in contact by pins or quill sutures, was due to Dr Kimball, of Lowell, Mass Several years ago Dr Goodell had resorted to this plan, but not since he had used Monsel's solution or the thermo cautery

PHILADELPHIA COUNTY MEDICAL SOCIETY

Stated Meeting, April 25, 1888

THE PRESIDENT, J SOLIS-COHEN, M D, IN THE CHAIR

DR George McClellan reported a case of

AMPUTATION OF THE LEFT HALF OF THE TONGUE FOR EPITHELIOMA

Michael G, an Irishman, aged 40, was admitted the first of this month to my ward at the Philadelphia Hospital He stated that he had never had syphilis, and that his general health had always been goodwhich was borne out by his appearance He had

toneum and carrying several threads across the sharp and shooting pain extending from the root of bleeding area, and upon tying these threads, bring the tongue on the left side down the neck and over He had seen Dr Zwei- the face A small sore was noticed on the side of fel, of Leipsic, invert a large bleeding area on the the tongue about its middle, which rapidly increased abdominal wall, and transfixing skin, muscles and until, at the time of admission to the hospital, it was peritoneum from without fasten a number of sutures the size of a half dollar Articulation and deglutition were interfered with, and there was a constant He had frequently used the cautery, in flow of saliva. There was also, apparently, an entimes past, but not recently In a recent case of larged gland in the submaxillary triangle I diagsevere general hemorrhage from the base of the nosed the disease to be epithelioma, and undertook whole broad ligament after removing a distended its removal by amputation on April 11, just two An incision was made from the symphysis of the chin, a finger's breadth below the jaw as far as the external jugular vein, the deep cervical fascia was torn through with the fingers and knife handle, and the swelling, which was under the sternomastoid muscle, proved to be a degenerated gland, checked all the danger is not obviated, whenever or rather cyst, which was filled with thick, cheesy matter The cyst was evacuated of its contents, the sion, in spite of the fact that the bleeding may have cyst wall torn out as much as possible, and the been checked, a lymph flow sometimes profuse is lingual artery, which was exposed in its relation to often poured into the abdomen, and if it is not car-the hyoid bone, the hypo glossal nerve, and digastric muscle, was secured by a ligature The anterior lent culture field for the few bacteria which are al- belly of the digastric was severed, and the mylohyoid muscle with the oral mucous membrane punched through with the finger, and the tongue having been freed from its frænum and pierced at its apex with a strong needle and string, was pulled The peculiar liability of down into the wound in the neck, as I hoped by so pus cases to this accident is readily accounted for by doing to be able to take away the diseased portion This proved unadvisable, owand ulcerating through, to evacuate itself. In many ing to the short, thick neck of the patient, and would have endangered the carotid and deep vein, and I at once cut through the commissure of the mouth, and, after tlying the coronary arteries, pulled the tongue forward, passed a trocar and canula through the middle of its base close to the hyoid bone, the trocar was withdrawn, and the chain of an écraseur was passed through the canula, and, after withdrawing the latter, I found the écraseur worked admirably I then cut off the affected half of the tongue close to the raphé, and was able to show my assistants that the only bleeding vessels from the tongue itself were at its apex A ligature secured these, and the stump was lightly touched with the Paquelin cautery Both wounds were then united by interrupted silk sutures and dressed antiseptically There was a rise of temperature to 103° the evening following, which was reduced by quinine suppositories and sponging Since then it has been about normal There was a great deal of venous bleeding during the operation, but very little arterial, owing to the early and prompt securing of the lingual and branches of the facial Cracked ice and iced milk only were allowed the patient for the first twenty-four hours The wounds were found healed at the first dressing on the third day, and this morning, (April 25), I saw the patient sitting up in a chair, dressed and wishing to go out He has had no pain whatever, and talks perfectly, and takes nourishment better than for a long time before the operation

Dr. G G DAVIS I would like to ask Dr Mcalways been an intemperate smoker of a short- Clellan where he tied the lingual artery It is usustemmed pipe Six months ago he first experienced ally taught that the proper place to expose this ves-

sel is in the digastric triangle. My own experience, He worked for six years at his trade as stone-cutter, in teaching the operation upon the cadaver, is that and was finally admitted to the Philadelphia Hosit may often be more readily found and ligated behind the digastric, thus obviating the necessity of ease, and a right basal pneumonia After recovering cutting through the mylohyoid muscle joint excision it would be interesting to know how trochanter, and pus evacuated, but excision was not far down the shaft of the bone was removed preliminary resection of the joint and shaft low down is practiced, and afterward an amputation through the thigh performed, I believe that the operation suppuration I at once excised the head of the will be of much less gravity than if the whole opera- femur below the trochanters, and scraped the aceta tive procedure is undertaken at one time Of course, this refers only to cases in which the condition of as is evidenced by the chart, and within three weeks the patient is such as to make a primary hip joint of the excision I amputated the thigh amputation too dangerous

DR McClellan The lingual artery is not difficult to secure The land-mark is the great cornu of the hyoid bone, and by making a curved incision parallel to the angle of the lower jaw, over it, we can readily expose the looped tendon of the digastric muscle and the stylo hyoideus Here the hypoglossal nerve is found, and the lingual artery passes after long exhausting suppuration

immediately behind it

It will be remembered that there was a great mass in the neck, probably due to secondary involvement from the growth on the tongue The first incision was made with the view of removing the gland and bringing out the tongue laterally by the same means of access The gland was found beneath the sternomastoid muscle, and a dissection to expose it would have endangered not alone the carotid, but the deep jugular, which I am loath either to wound or to tie I therefore tore out the cyst after discharging its con- lar surfaces of the condyles tents, and then brought into view the parts over the

lingual

In looking over the history of excision of the tongue. I have been struck with the fact that the different methods adopted all have points worthy of consideration in different cases The operation of cutting through the symphysis is sometimes practiced, also the horseshoe sub-mental incision operation is applicable only in a long, thin neck could not be performed in a short thick neck other operation of simply cutting through the oral commissure is very easy and simple, and exposes the dent to an Eye-Purification of the Thames-The parts sufficiently in all cases where the disease is situated behind the middle of the organ If we simply remember that the deep cervical fascia which Port of London, in his report for the latter half of loops down the two bellies of the digastric muscle also covers the artery and nerve, we need have no difficulty in finding the lingual, and it is readily distinguished from the nerve which lies in front of it, both upon the cadaver and living patient The difficulties sometimes experienced in operating on the former are due to the relation of the parts not being properly remembered

DR GEORGE McClellan reported a case of

EXCISION AT THE HIP, FOLLOWED BY AMPUTATION

Riocco V, the Italian, whose limb I amputated after having previously excised the hip, presents country at the age of 18, and while on shipboard had cases of small-pox on board was passed by the media fall, to which he attributed the trouble in his hip | cal officer at Plymouth and allowed to land six men

pital two years ago, with symptoms of hip joint dis In the hip- from the latter, an incision was made over the great done, owing to his generally bad condition When I went on duty at the hospital, March, 1887, I found the patient with a temperature of 104°, and profuse bulum, which was carious Instant relief followed, The patient made a rapid recovery, and the wound healed, with the exception of one of the lateral margins, which continued to discharge pus and sanious matter until a piece of drainage tube was removed spontaneously, one month ago He is now fat and hearty, and, although not a beautiful specimen of humanity, is a remarkable instance of what the system can endure

> As far as I can remember, Mr Furneaux Jordan was the first who recommended excision of the head of the femur in cases requiring amputation at the The photograph hip, in order to diminish shock shows long flaps This is due to the fact that I first excised just below the trochanters, and later at the amputation simply made an incision over the shaft of the bone down to the middle of the thigh There was very little hæmorrhage The femur was found on removal to be necrosed all the way to the articu-

CORRESPONDENCE. FOREIGN

LETTER FROM LONDON

(FROM OUR OWN CORRESPONDENT)

Sanitary Management of Shipping-National Pen-The sion Fund for Nurses-Abdominal Puncture in Tym panites-Opium smoking in London-Curious Acci-Galen Club

Dr Collinridge, Medical Officer of Health for the 1887, shows that considerable progress is being made in the sanitary management of shipping During the six months over ten thousand vessels were inspected, nearly 88 per cent of which were sailing under the British flag In thirteen cases the ships were fumigated, five on account of small-pox, two for measles, two for enteric fever, one for scarlatina, one for yellow fever, one for chicken-pox, and one in conse quence of the condemnation of its cargo of over 5000 quarters of beef Altogether some sixty four cases of infectious illness were reported, in the majority of which proper disinfection had already been applied by the authorities of the particular ships In one instance, however, it seems that a vessel with three

order to avoid the two or three hours delay which in the wall of the bowel would have been caused by landing them unsatisfactory

Mr Henry C Burdett is to be congratulated upon the success which has at length crowned his persistent efforts to found a National pension fund for Lord Rothschild, Mr H H Gibbs, Mr E A Hambro and Mr I S Morgan have each deposited £5,000 as security for annuitants and policy holders, thus supplying the reserve without which the effort must have failed. The scheme provides a provide for their old age and secure assistance in face was severely burned time of sickness It is proposed to guarantee a certain minimum pension of £15, £22 ios or £30 a year, in return for quarterly payments which vary in amount according to the sums assured, the age at which such payments begin and the age at which the pension is to be received. By slightly larger payments a sick allowance of from ten to twenty shillings a week can be secured By another arrangement two thirds of the premium can be made payable at the age of 50, the remaining third not commencing till ten years later All these schemes are guaranteed, but it is hoped that the bonus fund will make it possible to raise the £15 pension to £26 and to add to the other sums about one third of their respective amounts

An exceedingly interesting case of treatment of tympanites by abdominal puncture, came up before the last meeting of the Hunterian Society The patient, a man aged 46, came under treatment during the autumn of last year, with vomiting, paroxysmal pain, and constipation of about ten days' duration fullness, but no humor could be discovered, and rectal examination revealed nothing Enemata and the passage of a tube revealed nothing The patient | would not consent to colotomy, therefore puncture of the intestine to relieve distension was resorted to as the only treatment which promised relief Eight punctures were made, with considerable relief to the distension, but a violent attack of peristaltic contraction set in about an hour after it Three days later the intestine was again punctured in three places, and in order to prevent peristalsis, two precautions were taken, namely, hypodermic injection of morpho atropine and use of a large aspirating needle No violent penstalsis followed, and a very large amount of gas was liberated Forty-eight hours later the bowels were opened All went well for fourteen days, when symptoms of obstruction again returned, and puncas previously being taken, and in the course of the a two per cent solution of the bichloride

there while the patients were sent on to London in tain small spots, no trace of the puncture was visible

It is not surprising that the attention of medical Local Government Board thought not only that this men, as well as of philanthropists, has been directed proceeding but the explanations offered of it were to the increasing prevalence of the vice of opiumsmoking in the neighborhood of the London docks At the present time there are seven opium dens within a short distance of one another, and it is also a melancholy fact that in the same places of resort may be found many English women of the lowest The medical journals have suggested that the State cannot afford altogether to ignore this state of things It is stated that a nurse who, for the purpose of washing out a bottle which had contained number of methods by which nurses or other officials glycerin, poured some nitric acid into it, with the employed in hospitals or kindred institutions can result that the bottle burst in her hands, and that her

> A strange accident recently happened to one of the attendants at a hippodrome in London man suddenly felt his eye cut with, as he supposed, a pebble kicked up by one of the ponies who were being trained He was admitted to the West London Hospital, and on the following day, there being severe panophthalmitis, the operation of enucleation was performed with the best possible results mous thing was that, although the man was at the time of the accident standing beyond reach of the whip, a knot of a whip was found to have pierced the ball just below the horizontal meridian of the corneosclerotic junction and to have become imbedded in the vitreous humor It was supposed that the thong had become heated and the knot detached had flown off at great speed

Some of the members of the Board of Works proposed that 100 tons a week of the permanganate of soda should be used to purify the water of the Thames during the ensuing summer It was argued that about £,40,000 worth of permanganate would be required Examination of the abdomen showed considerable during the year The subject was eventually, after much discussion, referred to a select committee

> Medical men have now a new club at the West end styled the "Galen Club"

DOMESTIC CORRESPONDENCE

HOW IT STRIKES THE COUNTRY PRAC-TITIONER

Dear Sir -When the country practitioner of today takes up his medical journal he reads with awe not unmixed with incredulity, the earnest discussions of his city brethren of the healing art, as to whether the obstetric practitioner should or should not be held legally responsible for his puerperal fever ture again became necessary, the same precautions cases unless he douche the vagina and himself with following three weeks puncturing was four times re- quite naturally occurs to the aforesaid c p to won-Although great temporary relief was ob- der why puerperal fever is a disease of the cities and tained, the patient gradually sank At the autopsy dense centres of population where these things are an annular stricture was discovered in the first part done, and is almost unknown in the rural districts of the rectum, but no evidence of peritonitis or ex- where such refined methods do not prevail I ventravasation of fæces, and with the exception of cer- ture the assertion that not one country practitioner

in fifty uses any antiseptic precaution beyond cleanliness

Who, more than this same class, who by turns are called into the domain of surgery, gynecology, medicine and obstetrics, would more likely become con-His manifold and varied duties tagion bearers invite to habits of carelessness if not slovenliness in person and attire When in the presence of the spotless dress and immaculate person of his city brother, he bashfully pockets his hands, well knowing that hands which harness his horses, and blacken his boots, if they do not even carry the soft coal on wash days when his wife does the cooking while the one servant, maid of all work, is busy with the washing, will hardly compare in silky softness and pinkness of nails with the taper digits of his esteemed confrère But are these stubby fingered, browned and blistered hands any less capable of conveying contagion, of being coated over with the subtle and invisible mi- his patient, sat Dr Extraordinary carefully sponging

it was my fortune to attend between two hundred modern idea and three hundred cases of labor The only fatal case I ever saw in child bed at term was a lady who was suffering at the time of her confinement, and had been for three days, from a violent attack of facial erysipelas, from which, quite naturally, was evolved a puerperal peritonitis, which speedily proved All but this auto-inoculated case progressed quite favorably, and none more so than those immediately succeeding this one It is but fair to add that owing to the nature of this case, I washed my hands and arms thoroughly in carbolized hot water before taking charge of another Have never used an antiseptic vaginal douche except to correct the fetor of the lochia some days after confinement

These cases occurred in all walks of life, from the one-room hovel of the extremely destitute where a large family existed, and where it was contamination to touch the dirt begrimed bedding on which the accouchement occurred, to the spacious and elegant country home of the well-to-do farmer, where the sheets were of snowy whiteness and where the microorganism would find himself in constant danger from the onslaught of scrubbing brush, dust cloth Add to this the nervous anxiety of a and broom man often far from home and worried about other ing that there were frequent and prolonged vaginal to establish a Bureau of Health," or to disparage the examinations with attempted digital dilatation of the value of the labors of the United States Marine Shades of Semmelweiss, how did any escape! cency and prudence can be so called, was washing laws and system of Louisiana against the persistent The only antiseptic precaution, if such common dethe hands in clean water and soap and cleaning the and unjust attacks of the National Board of Health

When an undergraduate I remember our professor the Reports of the Board of Health of the State of obstetrics opposed frequent digital examinations on the ground that it needlessly removed the lubricate pot disposed to remove the lubr on the ground that it needlessly removed the lubricating mucus so liberally supplied to the parturient canal, but does not an aqueous douche have the tended their thousands of cases without a fatal puermittee on Commerce, bearing date Washington, D.

peral case, and who have practiced no preliminary. peral case, and who have practiced no preliminary C, Treasury Department, February 21, 1888 antisepsis but strict cleanliness

The fact is, there appears to be a medical ten dency to take up every European suggestion or hypothesis as our young men excuse oddities in dress by saying, "It's so English, you know"

Some years ago we had 40 and 50 gr doses of quinine for hyperpyrexia, with perhaps a sudden

cold bath as antipyretic in typhoid

The latest fad is this germ mania A physician in a certain city not three hundred miles from Chicago was called in excitedly by an anxious soon to be father, whose chosen modern method attendant he had not found at his office But before Dr Ordinary could get there Dr Extraordinary had returned and answered the call When our friend Dr O arrived he was ushered unceremoniously into the sick chamber, and though an old man of years of obstetric experience, he blushed at the sight that met his gaze, and retreated precipitately, for there, alone with croorganisms which haunt the day dreams of the his patient's nude body with, it is presumed, the orgermaniae? "If not, why not?" thodox two per cent solution Not a thread of During a practice of six years in Central Illinois germ-concealing garment had this poor victim of a was my fortune to attend between two hundred modern idea. This may do for a Vienna hospital, but is the modesty and loveliness of American womanhood to be sacnficed on the altar of this attenuated micro-organic moonshine?

This is the "whither" of our tendency unless somebody calls a halt, or at least that is the impression of COUNTRY PRACTITIONER at least one

STATE MEDICINE.

State, Interstate, National and International San-Itary and Quarantine Code, Prepared for the United States of America

BY JOSEPH JONES, MD, OF NEW ORLEANS, LA

PRESIDENT OF THE LOUISIANA STATE MEDICAL SOCIETY, BIC (Extract from Report on Organization, April 25,

In my address to the regular medical profession of Louisiana on November 14, 1887, it was not the in tention of the brief observations relating to Public and International Hygiene to revise any organization such as the National Board of Health, or to give any support to the Bill recently introduced into the United "To prevent the In States Congress (H B 1,526) troduction of Contagious and Infectious Diseases, and

Our defense of the police powers and quarantine

The imperfections of the Bill (H B 1,526) now before Congress are fully set forth in the letter of the Secretary of the United States Treasury to the ComOur views may thus be formulated

I It is important that uniform quarantine laws should be formulated for the entire Republic, as will be manifest upon the consideration of the following

(a) The population of the United States of America now exceeds forty millions, and is rapidly in-

- (b) The United States, in virtue of its central geographical position, between the Atlantic and Pacific Oceans, and with the Gulf of Mexico, the Antilles and the Republic of Mexico on the south, is perpetually exposed to the introduction of foreign pestilence
- (c) The United States, either annually or at certain intervals, is exposed to the introduction of smallpox and cholera from Europe and Canada, to the introduction of leprosy and small-pox from China and Japan, and to the annual introduction of yellow fever from the Antilles and the Republic of Mexico, and the Central and South American cities
- 2 The Police Powers of the several States and Territories composing the great American Republic should be fully recognized in any system of internal and external sanitation and quarantine
- 3 The greatest diversity prevails in the sanitary and quarantine laws and regulations of the individual States and Territories

The quarantine systems present different degrees

In times of pestilence, the Interstate intercourse and traffic are hable to sudden and arbitrary interruption, and the brutal shot-gun quarantine may be substituted for the dictates of humanity and the teachings of sanitary science

4 The United States Marine Hospital Service, under the direction of the President of the United States and of the Secretary of the Treasury, has rendered and is capable of rendering important service to the Nation, in the exclusion of foreign pesti-

5 The sanitary and quarantine laws of the several States should be perfected and unified and the most perfect accord established between the individual States, on the one hand, and with the General Government on the other

- 6 The most direct method and the wisest and most liberal, and the one most in accord with the spirit of our National and State institutions, appears , to be the appointment on the part of the individual States, and of the General Government, of representatives duly commissioned, and empowered to meet in general assembly, at such places and times as may be deemed best, for the thorough discussion of the existing sanitary and quarantine laws, and for the preparation of a National Sanitary and Quarantine Code
- 7 THE NATIONAL SANITARY AND QUARANTINE Code should define clearly the relations of the individual States to each other, and to the United States Government, on all matters relating to the domestic sanitation of the individual States, and to public and International hygiene The regulations should have due regard to differences of climate, elevation, en-

tions, and the burden of maintaining maritime quarantine should be borne by the Republic, and should not be inflicted upon commerce, or upon the maritime States alone

- 8 The members of the Association charged with the examination, enlargement, consolidation and perfection of the sanitary and quarantine regulations and laws of the several States, and the elaboration of the National Sanitary and Quarantine Code, should be men of the greatest learning, wisdom and experience in the medical and legal professions receive fixed and ample salaries, so as to enable the Congress to work with due care and deliberation until its important labors are completed
- o After the completion of the labors of the Congress, the Sanitary and Quarantine Code should be submitted to the individual States for their ratification, and after adoption by a majority of the States composing the American Union, the National Sanitary and Quarantine Code shall become National, and shall receive the support of the General Govern-

It will be observed that the plan here proposed is designed to ascertain and formulate the police powers of the people in sanitary and quarantine matters, and is opposed to all hasty, and sectional, and arbitrary legislation, as advised by politicians, or by ambitious and scheming self constituted guardians of the public health

156 Washington St, New Orleans, La, May 5, 1888

MISCELLANEOUS.

NEW YORK STATE MEDICAL ASSOCIATION, Fifth District Branch, will hold its fourth annual meeting in the Magnolia Lodge Rooms Brooklyn, N Y, on Tuesday, May 22, 1888 Valuable papers and topics of interest will fully occupy the time of the meeting

THE MEDICAL SOCIETY OF NEW JERSEY will hold its one hundred and twenty second annual meeting at the Heath House, Schooley's Mountam N J, on Tuesday and Wednesday, June 12 and 13, 1888 For further information apply to Wm Elmer, Jr, Corresponding Secretary, Trenton, N

PAJOT'S ERGOT MILL.—Sir James Paget would doubtless be surprised to read in the last issue of an American contemporary that "Professor Paget, carries in his obstetric bag an ergot mill, resembling a small coffee mill, compact in form, and designed to grind up ergot freshly for use" Pajot claims that ergot is un reliable unless freshly pulverized, and in order to have it in this form he grinds it for immediate use.

DEATH OF DR JOSEPH AUB —We regret to announce the death of Dr Aub the well known ophthalmologist and otologist of Cincinnati, which occurred a few days ago He was in the prime of life, but had been suffering with heart trouble for some

Cincinnati has suffered severe professional loss within the past few weeks in the death of Dr Aub, in that of Dr C S Muscrost, which took place on May 1, and in the probably satal in jury of Dr C D Palmer on May 2, when he was thrown from his buggy

TRANSACTIONS OF THE NINTH INTERNATIONAL MEDICAL Congress — Two volumes of the Transactions of the recent Medical Congress in Washington, are ready and being distributed to members as rapidly as possible. Through the active agency of the late Secretary General Hamilton, 150 members received demic and epidemic diseases, and commercial relatithese volumes while in attendance on the annual meeting of the 150 00

33 75

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17 50

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331 00

30 00

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210 00 270 00

125 00

75 00 106 70 5 00

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American Medical Association, in Cincinnati The work of publication has been done in excellent style thus far The third volume is also by this time complete, and the remaining two will follow within the next three months, making five large volumes, and constituting a valuable library in themselves

UNIVERSITY MFDICAL MAGAZINE -In accordance with a resolution adopted by the Faculty of Medicine of the University of Pennsylvania, the first number of a handsome 64 page medical monthly will be issued October 1, 1888, under the title The University Medical Magazine, edited under the auspices of the Alumni and Faculty of Medicine of the University of Pennsyl vania It will be edited by a staff from the Professors of the University, the editorial committee being Dr George E de Schweinitz and Dr Hobart A Hare It will be published by A L Hummel, 224 S Sixteenth St , Philadelphia

NINTH INTERNATIONAL MEDICAL CONGRESS EXPENDI-TURES - Treasury Defartment, Washington, 1pril 30, 1888 I have the honor to transmit herewith, for the informa tion of the House of Representatives, an itemized statement of the expenditures from the appropriation for "the purpose of entertaining and providing for the expenses of the Ninth International Medical Congress," held in this city September 5 to 12, Very respectfully, your obedient servant, C S FAIRCHILD, Sec'y

The Speaker of the House of Representatives

RYPENDITURES June and July, Pay roll, Elia Whiting, clerk committee of arrangements

Aug 13, Gray & Clarkson blank books and stationery

Aug 12, D C Patterson cash paid for miscellaneous ex

penses local committee, as per vouchers in original Aug 3, Gibson Brothers printing registration blanks
Aug 9-17 Bailey, Banks & Biddle, engraved cards and
envelopes
ao Bailey, Banks & Biddle steel plate engraving 3,000 invitation cards etc.
Aug. 2, Thomas McGill & Co., printing 600 shps (rebate on Aug 2, Thomas McGill & Co, printing 600 ships (rebate on railroad fare)

Sept 5 Wm F Fell & Co, miscellaneous printing (5000 programmes, 500 abstracts)

Sept 1-10 James L klee, services (German interpreter)

Sept 10, Rémy Lefranc, services (French interpreter)

Sept 10, Rémy Lefranc, services (French interpreter)

Sept 10, Bailey, Bauks & Biddle 300 white metal medals (badges)

Sept, E Morrison 4000 envelopes

Sept, Church of Our Father, rent of church

Sept, J H Weirick, clerical services

Sept, Albaugh's Opera House, rent of opera house

Sept, Dr D C Patterson

Amt paid for armory, Washington Light Infantry

Amt paid for electric light plant at Pension Office

Sept, National Rifles rent of hall

Sept, Miss Ella Whiting, clerk for chairman committee of arrangements for August, 1887

Sept, Gibson Brothers, printing engraving, etc

Sept, Pennsylvania Railroad Company per R A Parke, general southeastern passenger agent, transportation furnished foreign delegates of International Medical Congress to Niagara Falls and return, special train, Pullman cars

Pullman cars
Sept. L G Marini rent of Masonic Hall
Sept, Bailey, Banks & Biddle, 3,000 menus engraved on
steel
Steel Army of the Grand Army of the Republic, rent of

Sept., Society of the Grand Army of the Republic, rent of four halls
Sept., Thomas McGill & Co printing, etc
Sept., First Congregational Society, rent of church
Sept., Washington Gas Light Company, gas furnished

Total

APPROPRIATION Act appropriated March 3, 1887

Expenditures

Balance

NEW BOOKS RECEIVED

Dissolution and Evolution and the Science of Medicine C Pitfield Mitchell London Longmans, Green & Co A Practical Treatise on Diseases of the Skin Second Edition. Lea Brothers Philadelphia By James Nevins Hyde & Co Philadel-

A Treatise on Dislocations By Louis A Stimson phia Lea Brothers & Co

The Southern Cattle Plague of the United States, with espe cial relation to its Resemblance to the Yellow Fever By Frank S Billings

Lesions of the Vagina and Pelvic Floor, with especial reference to Uterine and Vaginal Prolapse By B E Hadra. Phil adelphia Ricards, McMullin & Co

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM MAY 5, 1288, TO MAY 11, 1888

Lieut Col James C McKee, Surgeon, granted leave of absence for one month S O 107, A G O, May 9, 1888

Major Chas R Greenleaf, Surgeon, Major Robert M O'Reil ly, Surgeon, Capt Jno O Skinner, Asst Surgeon, detailed as members of a board of medical officers to assemble at the U S Military Academy, West Point, N Y, on June 1, 1888, to examine into the physical qualifications of members of the graduating class and of the candidates for admission to

the Academy S O 104, A G O, May 5, 1888
Major Harvey E Brown, Surgeon, the leave of absence for seven days granted by Order 68, Ft Barrancas, Fla, May 2, 1888, is extended twelve days S O 90, Div Atlantic, May 8, 1888

Capt Leonard Y Loring, Asst Surgeon, granted leave of ab sence for three months, on surgeon's certificate of disability

S O 105, A G O, May 7, 1888 Capt Paul R Brown, Asst Surgeon, granted leave of absence for six months, on surgeon's certificate of disability, with per mission to leave the Division of the Atlantic S O 107, A

G O, May 9, 1888 Capt Robert B Benham, Asst Surgeon, to proceed from Ft DuChesne to It Douglas, Utah, and report to commanding officer of that post, not later than the 25th inst, to accom pany battalion of Sixth Infantry to Ft Lewis, Col Upon completion of this duty, will return to his station, Ft Du Chesne, Utah S O 33, Dept Platte, May 5, 1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U S NAVY, DURING THE WEEK ENDING MAY 12, 1888

P A Surgeon A G Cabell, detached from "Adams," pro

ceed home and wait orders Surgeon M H Simons, detached from Naval Academy and to practice ship "Constitution"

Medical Director P J Horewitz, leave of absence for six months, to leave the United States

A Naval Medical Examining Board is now in session at the Naval Hospital, Philadelphia, for the examination of candi Naval Hospital, Philadeipnia, ior the Madral Corps of the Navy There dates for admission to the Medical Corps of the Navy Permits are eleven vacancies in the list of Asst Surgeons for examination can be obtained on application to the Secre tary of the Navy

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES
OF MEDICAL OFFICERS OF THE U S MARINE HOS
PITAL SERVICE FOR THE TWO WEEKS ENDING
MAY 5 1888

Surgeon P H Bailhache, to proceed to New York, N Y, for temporary duty May 1, 1888 Surgeon W H H Hutton, detailed as President of Board to report as to quarantine establishment at North Chandeleur Island, Gulf of Mexico May 4, 1888
Surgeon Walter Wyman, granted leave of absence for fourteen days May 4, 1888
Surgeon G W Stoner, detailed as chairman of Board for the physical examination of candidates for appointment and pro-

physical examination of candidates for appointment and pro

motion, Revenue Marine Service May 5, 1888

P A Surgeon F W Mead, detailed as recorder of Board for the physical examination of candidates for appointment and promotion, Revenue Marine Service May 4, 1888
P A Surgeon H R Carter detailed

A Surgeon H R Carter, detailed as recorder of Board to report as to quarantine establishment at North Chandeleur Island, Gulf of Mexico May 4, 1888

P A Surgeon S C Devan, relieved from duty at Sapelo Quar antine to assume shares of the Samue at Savannah. Ga

antine, to assume charge of the Service at Savannah, Ga

A Surgeon J H White, relieved from duty at Savannah, Ga, to assume charge of Sapelo Quarantine Station May 3, 1888

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CHICAGO, MAY 26, 1888

No 21

ADDRESS IN STATE MEDICINE

Delivered at the Thirth ninth Annual Meeting of the Ameri can Medical Association, May 10, 1888

> BY HINRY P WALCOTT, M D. OF CAMBRIDGE, MASS

Members of the American Medical Association

When a committee of this body invited me to dehver the address which Dr Cabell felt himself unable to undertake, I accepted the invitation with much hesitation, well aware that, in attempting to fill the place which all had hoped to see occupied by the far below your proper expectations

Mingled with this natural reluctance is also the knowledge that I have not the oratorical skill to repeat in any new or attractive manner those general statements as to the claims of hygiene and State preventive medicine upon the public and our profession which have been so often and so eloquently brought to your attention

Neither am I quite willing to limit myself to an attempt to describe the progress of public preventive medicine during the past year But I shall assume that my text has been given me in the fact which is probably the reason for my invitation to occupy this most honorable place I mean my connection with the State Board of Health of Massachusetts, now in the twentieth year of its existence

This Board has passed through experiences which are more or less true of every other State Board of Health in this country—it has sometimes failed where success was due and has succeeded where defeat seemed inevitable It has illustrated the various stages of progress in the attempt on the part of the State to prevent disease, and has also, at some periods in its history, suffered from the interference of politicians and self seekers

This story, interesting as it might be in Massachusetts, would be quite out of place here, were it not true that we also have a fairly kept record of our vital statistics from the year 1842 to the present time

Therefore it has seemed to me that it would not be unprofitable, in this twentieth year of State preventive medicine, that I should attempt to answer some of the questions that may fairly be asked of those who prevention of disease

You will not need the assurance, I hope, that the example of my own State is used in no limited and provincial spirit We have not hesitated to borrow from our brothers in other States and countries any thing that offered the slightest promise of help in the unending struggle for the preservation of human life We have relied upon their counsel and assistance, and have not been disappointed On the other hand, the legislative act by which our Board was established has served as a model for many of the organizations subsequently formed Our interests have thus been common, our methods similar, and the results will be not much unlike

Another reason for using this local experience lies honored head of our first-unfortunately, perhaps in the fact that our restricted territory and comparaour last, National health organization, I should fall tively large population have brought about conditions which, fortunately for the majority of the States of the Union, will remain in the distant future, but which. sooner or later, will come to all, and almost inevitably sooner than they are expected

> That these experiences can be submitted to no tribunal so competent to correctly interpret them as the medical profession is a proposition which scarcely needs an argument

> Although State Medicine, as the name implies, is the result of legislation in which our profession has little or no share, and legislation which, oftentimes, is not immediately suggested by medical men, still it is quite true that legislative bodies have rarely, if ever, acted upon measures concerning the public health without some understanding of the views of our profession, expressed publicly in the hearings before appropriate committees of the legislative bodies, or privately in the more convincing interchanges of opinion between legislator and constituent while this is true in a general sense of the influence of the profession, it is not true that the best medical opinion receives the highest consideration, for it is not the loudest-voiced and it is constitutionally unwilling to enter the field of politics

> It should be, then, one of the functions of great representative assemblies of the profession, such as this is, to give voice to the deliberate opinions of those who are the only competent critics of the failures or successes of State Medicine

In the earlier days of sanitary reform great improvements in the general health of communities were brought about by public works for the protection of water supplies and the better drainage of have had a share in the public responsibility for the cities, these were carried on under the direction of eminent engineers, who received, and properly, the

praises due to their successful undertakings these very successes had to a certain extent mis'ed the public, which was now inclined to believe that a water supply pure from ordinary contamination, a system of sewers that removed without offensive smells waste matters, were the beginning and end of consisted in brutal and irrational systems of quaransanitary regulation advertises himself, is another instance of the same While there is no question that sometendency thing has been added to the security of human life, and much to its comfort, by the better planned and those suffering from communicable diseases better constructed arrangements for our domestic conveniences, still it is true that the real question has been little advanced by all this-the question how the filth diseases, so-called, originate and how they Many of them are found in conare propagated nection with bad plumbing, some of them, also, where the plumbing appears to be perfect study of their origin and spread must remain in the hands of trained observers of the medical profession, for they alone can read the characters in which the evidence is recorded and assign to the various details It is, therefore, essential that their relative value the relations between the health authorities, whether they exist in the form of boards or single commissioner, and the great body of the practitioners of medicine, should be founded in confidence for without these supports no executive sanitary power can long maintain itself, however firmly intrenched behind political influence

I do not mean to say that there will not be seasons during which legislative bodies will seem to arrogate to themselves the special knowledge which belongs to our calling, but it will be observed that this happens only in the years of comparative good health Let disaster come, let any one of and prosperity the great pestilences invade the land, and all will be Powers will be conferred upon boards of changed health never dreamed of by the founders of the Republic, and appropriations of money made which would, if used in season, have averted many pesti-Our rulers allow the dykes to be broken through and the whole country to be flooded labor of one man might have saved the dyke if applied in season, the toil and the lives of thousands

may be the penalty for the neglect

These great epidemics of contagious disease are treated by Governments generally very much as our ancestors used their weapon-salve, the remedy was rubbed upon the weapon that inflicted the wound, and the patient was for the time an object of second-

ary importance

Would it not be as unreasonable, in this day, to establish a quarantine station at the entrance of a harbor and then to abandon all sanitary work in the threatened district, and to rely for protection on that alone which never has been and never will be, in the weakness of man, a sufficient safeguard?

Before leaving this branch of the subject I wish to call your attention for a moment to the anxieties so frequently shown by our National legislators as to the unconstitutionality of the sanitary legislation interest of the public health It is, I presume, true the above named document for the appropriation of

But that the words "public health" do not occur in the written Constitution of the United States, and they do not appear there for the simple reason that in the year 1787 men knew very little practically about the prevention of disease, their efforts to limit epidemics The sanitary plumber, as he tine, which did not protect, and are only now giving way to the humane and scientific methods of medical inspection, disinfection, at times detention on the frontier, and prompt isolation within the country, of

Public hygiene, which lies at the foundation of modern civilized life, is, almost literally a creation of the present day In earlier times under the scourge of some startling inroad of disease, States and smaller communities had made occasional and spasmodic attempts to repress great epidemics-but a behef in the prevention of disease, as we understand these words, did not exist, and it is within the active life of men now living that this important branch of medi cine has received its proper consideration the first among the medical teachers of this country to direct attention to preventive medicine was Dr Elisha Bartlett, sometime Professor of the Theory and Practice of Medicine in the Transylvania School of Medicine, in Kentucky, a man who exercised by his teachings and writings a great and sound influence throughout the country In his essay on the Philosophy of Medical Science, published in 1844, he claims that the great work of the next and succeed ing generations will be the best methods of preventing as well as curing disease

The words of that great physician Dr Samuel D Gross, himself known and honored wherever the science or the art of surgery is recognized, shows how fully this prediction has been realized. It seems to me singularly appropriate that the words should have been spoken upon the occasion of the dedication of a monument to the memory of Ephraim McDowell, who gave to the world that surgical operation which in the cure of disease has given more years to

woman's life than any other

"The great question of the day is not this operation or that, not ovariotomy or lithotomy, or a hipjoint amputation, which have reflected so much glory upon American medicine, but preventive medicine, the hygiene of our persons, our dwellings, our streets, in a word, our surroundings, whatever and wherever they may be, whether in city, town, hamlet or coun-This is the great problem of the day, the question which you, as the representatives of the rising generation of physicians, should urge in season and out of season, upon the attention of your fellowcitizens—the question which above and beyond all others should engage your most serious thoughts and elicit your most earnest cooperation"

Many of our law-makers have discovered, I believe, no other authority for sanitary legislation on the part of the General Government than that which is contained in the section of the Constitution which de clares that Congress, among other functions, shall have power "to regulate commerce". There does not appear to be any clearly expressed provision in

monia in cattle, and yet the forty-ninth Congress did appropriate \$500,000 for that purpose, and wisely, I am sure we shall all say I read, however, in this same section of the Constitution that Congress shall also have power to provide "for the general welfare of the United States"

In our own day we have seen National, State and local laws swept away by cholera and yellow fever Let us hope then that some ingenious law-maker may find in these words a sufficient authority for the expenditure of enough of the public money, at least, to secure some of those thorough investigations of preventable disease which have characterized the work of the Gesundheitsamt in Germany and the Local Government Board in England

the experience of the last ten years makes it possible for us to state—that improved methods of research, that the knowledge already gained, have made it almost certain that coordinated investigations properly encouraged and supported by such aid as only a great government can give, would lead to the discovery of the causes of yellow fever and malarial fever in the first place, and in the second, to rational methods of dealing with these most formidable scourges of the land in the way of prevention or of cure Then, I say, it does seem in the highest degree absurd, that any form of government should deliberately deprive itself of the sanitary gains which contribute so directly to the preservation of "life, liberty and the pursuit of happiness "

The State Board of Health, of Massachusetts, was established by legislative action in 1869 boards of health, of not much efficiency, had existed from the beginning of the century The State Board of Health entered at once upon its duties, which were advisory rather than executive Under the lead of wise men the public intelligence was quickened health upon all the important sanitary questions to such a degree that the succeeding years brought to the Board added executive power and larger appropria-Seven thousand five hundred dollars were appropriated for the work of the Board in the earlier the conclusive evidence of the people's belief in the value of protective medicine, and this sum does not report

After ten years of most successful administration it was thought advisable by the legislature of the day Public Charities with enlarged powers

The right of the people to pure air, soil, water and food are recognized by the laws of the Common wealth, and various statutes have been passed to secure these results and to prevent their infringement The Board is charged to some extent with the duty

money to help exterminate contagious pleuro pneu- power coordinate with that of the local boards of

The business of investigating and gathering information as to any matter pertaining to the public health, and of diffusing such information among the people, is also included in its functions

Among the matters of which it thus takes cognizance are the causes and prevention of infectious For this purpose coordinate powers with diseases local boards of health are given to the Board, the suppression of nuisances, including the regulation of noxious and offensive trades, the collection and diffusion of information relative to industrial hygiene, or the effects of different occupations, industries and domestic pursuits upon people at various ages and under various conditions of life, the hygiene of When it can be deliberately stated—as I believe schools, school buildings and public institutions, the examination and investigation of public water sup plies and public ice supplies, and the prevention of their pollution, the investigation of drainage and sewerage plans or systems so far as they relate to the public health, the disposal and transportation of the dead, the inspection of food, drugs, and other articles affecting the public health, inquiries relative to the amount of intemperance from the use of stimulants and narcotics, and the remedies therefor, investigations as to the infectious diseases of animals so far as they affect man, the editing of the registration report of the State

What effect has all this had upon the health of the people as shown by the mortality rate, for that is the only trustworthy standard, under our present means of registration, by which to determine the effects of measures taken for the prevention of disease out the assistance of well conceived and carefully executed tables of vital statistics, communities are liable to the most erroneous impressions as to the actual effect of their surroundings upon the general Hence, our legislation in sanitary matters is in constant danger of becoming the reflex merely of vague rumors, hasty and incorrectly formed conclusions, or statements based solely on commercial and interested motives, unless it is distinctly understood that the duration of human life, the diseases by which years, in the present year sixty thousand dollars are it is cut short and the preventable or inevitable character of the disease, so far as we now understand these qualities, are things which can be determined by ininclude the large sum spent upon the registration telligent and continuous investigation by experts, and should be no more the subject of guess-work than the truths of mathematics or the facts of chemistry

Inasmuch as the task which I have taken upon myto very widely extend the functions of the Board by self is the proof of the value of preventive medicine, reorganization and the addition of the power of Com- let us take not the mortality rate as a whole, but the missioners in Lunacy and of the Supervision of the rates from certain specified diseases which are admit-The burden proved too great and ted to be preventable and controllable by means of after a few years the original organization was restored vaccination, isolation and disinfection, and suitable sanitary precautions

Let us then compare these rates in successive years not only with each other, but also with the rates of those diseases in respect to which we possess no well recognized powers of prevention

This comparison shall be made during the period of enforcing these rights and preventing and punish of the existence of our State Board of Health, not ing any violation of them, having for this purpose with the presumption that statute regulation, either

in the hands of a State or municipal board of health, deserves all the credit of the improvement obtained

During this period there has been an active and intelligent interest in all sanitary questions, steps have we can with certainty limit, if not abolish As we been taken on all sides for procuring purer water supplies, better drainage, food and drugs free from adulteration, tenement houses have been much improved, sometimes by private undertaking, and oftentimes under the compulsion of the law But in all these movements the influence of the sanitarian has been predominant, and the improvement in the health of the people is regarded as the only just standard for the measure of our success

When regard is had to the fact that Massachusetts is one of the oldest settlements in the country and, with the exception of Rhode Island, the most densely populated State in the Union, it would not be surprising to find there a relatively high death-rate This would be true even if the conditions which favor health there were equal to those found in other States

The average death-rate for the thirty-six years 1851-1886 was 19 40 per 1,000 living, the lowest death-rate in this period was 16 99, in the year 1867, the highest death-rate that of 1872, being 22 85 per the last registration year, 1886 So far as these figures go, we have no changes of consequence

But if we turn to the general classification of causes of disease into zymotic, constitutional, local, develmental and violent, we find that there has been an almost constant decrease in the class of zymotic diseases during the period now under consideration

PERCENTAGE OF CAUSES OF DEATHS BY CLASSES

Years	CLASSES						
IBART	Zymotic	Constitu tional	Local	Develop mental	Violent Deaths		
1870	25 6	26 6	28 1	156	4 I		
1875 1880	28 6 24 5	24 3 23 7	31 8 38 0	11 2	4 T 3 7		
1885	190	23 7	42 7	107	39		

The years taken are census years

The changes in the class of constitutional diseases have not been so marked as in those of the zymotic class, although the tendency appears to be constant in the direction of a decrease

In the class of local diseases there has been a decided increase, from 28 1 in 1870 to 42 7 in 1885

In the class of deaths from developmental causes the changes in the last three cer us years are insignificant As this class contain deaths from teething and old age, it is to be experied that more accurate diagnosis will diminish its relative importance

The percentage of viole it deaths remains through-

out essentially unchanged;

If we arrange the percentages of causes of death from zymotic diseases in two columns of ten years each, we shall find in the first decade, from 1867 to 1876, the average of the e percentages to be 27 94, in the second decade, 1877-1886, the average has Let us examine more carefully the diseases which

we have a reasonable hope of preventing by appropriate sanitary regulations

We shall find at the head of the list a disease which pass down the list we shall come to diseases which are more and more dependent upon the special treat ment of a physician or surgeon, and can be but slightly, if at all, affected by the surroundings which the public officer of health can control

It seems, however, to be true that, with each succeeding year, a larger and larger number of these are found to be the result of influences that can be re

For the first time in the registration history of the State a year has passed—1886—without the record of a single death from smallpox, and this notwith standing the fact that we are in continual communi cation with countries where the protection of vacci nation is not so generally given as it should be, and one of our chief industries, the manufacture of pa per, involves the use of materials which always carry with them the possibility of the presence of the con tagion of this most persistent disease Many years of comparative immunity from smallpox had led to a It was 18 38 per 1,000 in 1869, and 18 85 in disregard of the stringent laws for compulsory vac cination, and the State paid the usual penalty in 1872 and 1873, the mortality in the former of these years reaching 2 9 per cent of the deaths from all causes, with 1029 deaths from smallpox The atten tion of the authorities was aroused, existing legisla tion was rigidly enforced, and additional powers, where found necessary, were obtained, and there has been no year since when the percentage of deaths from this cause to deaths from all causes has reached fourteen hundredths (14) of one per cent

Typhoid fever has, upon the whole, diminished both relatively and absolutely In 1886 the percent age of deaths from typhoid fever to deaths from all causes was 2 15, in the year of greatest prevalence, within a period of twenty years-1872-the percentage of deaths from typhoid to deaths from all causes was 4 86, and the death-rate per 10,000 living was The diminution in the death-rate from this disease has been especially marked in cities with new water supplies and good systems of sewers The death-rate from this cause is substantially un changed in the small country towns

The death-rates from typhoid fever per 10,000 living, in census years 1865-1885 have been for the 1865, 13 4, 1870, 9 1, 1875, 6 4, 1880, 4 9, State

1885, 3 9 Scarlet fever has more than once astomshed the medical world by a sudden assumption of great violence and fatality after many years of comparatively Graves has called the attenharmless prevalence tion of the profession in a most instructive manner to the experience of Dublin, where from 1804, when an epidemic of great malignancy had come to an end, until 1834, the scarlet fever that occurred was At the latter date the disease burst in upon the city with its old-time ferocity. It is therefore with some hesitation that I use the figures of the registration as to this disease The record for thirty years shows a death-rate per 10,000 living reduced from 17 2 in 1857, to 1 7 in 1886 Though it is possible that we are only nearing the end of a series of benignant years, and that another may see the return of an epidemic over which we possess little power Still it is the belief of our most competent observers, that isolation and disinfection have had a sensible effect upon the spread of this disease period of twenty

Diphtheria first appeared in our registration in 1858, causing in that year eighteen deaths, reached its highest degree of prevalence in 1877, and since that year has much diminished in frequency, but has not again sunk to the low figures of the years 1870–1873, when it constituted less than i per cent of the deaths from all causes

If in the present uncertainty of medical diagnosis with reference to croup and diphtheria, it is desirable to consider them together, and all deaths from croup are added to those resulting from diphtheria, we should not obtain conclusions essentially different from those above stated. An examination of our record shows that the reported deaths from croup are slowly and steadily falling in number, and that the two diseases rise and fall together in the scale of prevalence. It is probable, therefore, that a more accurate diagnosis will hereafter transfer to deaths from diphtheria many cases which would, in times past, have been assigned to croup

The relations of diphtheria to the grosser forms of insanitary conditions, is not yet clearly made out. There is also a probability that some of the lower

animals are attacked by it

The degree of its prevalence in Massachusetts in the United States census year 1880, was almost identical with the rate for the whole country. The general rate was 5039 out of 100,000 deaths from all causes, the rate in Massachusetts was 5010 to the 100,000. In England in 1880 the rate was only 532 per 100,000, which does not vary essentially from the rate of the ten years preceding

In the city of Boston a notification to the board of health of all cases of diphtheria, as well as of certain other communicable diseases, is compulsory. The board in such cases causes a careful inspection of the premises to be made. In the year 1887, when 1049 cases, with 316 deaths, were reported, 927 houses were examined, 534 were found to be in defective sanitary condition, 393, on the contrary, were in good sanitary condition.

A rigid inspection of 900 houses taken at random in any city would, I think, not be unlikely to show nearly as large a number of houses that would fail to satisfy an examination which is very apt to start out with the determination to find some sanitary defect

It is a communicable disease in a very marked degree, but does not appear to have any other relation to filth than this, that the absence of proper cleanliness, and the presence of the material of contagion in the food, person or surroundings, are quite sure to go together. It may also be assumed to be probable that a number of mild cases of the disease always exist, and are the unsuspected vehicles of the contagion. We know this to be true of almost all the diseases of this class, and I think we have buther the contagion.

erto taken the probable existence of such cases too little into account

The diarrhoeal diseases, including diarrhoea, dysentery, cholera infantum, cholera morbus, and enteritis, have only changed place in the list as cholera infantum has varied. Cholera infantum, during the period of twenty years, has diminished, though the fall has not been regular, dividing the period of twenty years into two decades, the average of the first yields a death-rate from cholera infantum of 13 51 per 10,000 living, the second an average of 10 32 per 10,000

Dysentery, which in the first half of this century has several times appeared in epidemics of great severity, has thus far in the second half been steadily diminishing in importance. The improvements in domestic water supplies appear to have had some influence upon this reduction in number, so far at least as the question has been studied in certain cities in the State. Only 243 deaths out of a total of 37,244

are assigned to this disease in 1886

Malarial fevers caused, in 1886, 32 deaths, of which number 20, or 62 5 per cent, occurred in the five western counties, which have but 26 per cent of the population Although serious epidemics have occurred in the eastern counties during the years 1884-5-6, they have thus far had little apparent effect upon the death rate Statistics of disease as well as those of mortality would be an additional index of very great value for the sanitary condition of a dis-In the case of the disease now under considtrict eration, they would be of unusual value, because portions of our State hitherto exempt have been invaded by malarial fevers, and yet the resulting mortality has been insignificant. We can only say that malarial fevers have increased beyond the increase in our population, and that this tender exotic in New England has unfortunately found some new conditions which favor its development

The number of deaths from measles has been very variable through this period, this variability in mortality was more noticeable in the last half than in the first half of the period. The average of the last half was also less than in the first half. The number of deaths has ranged from a minimum of 19 deaths.

MORTALITY FROM PULMONARY CONSUMPTION, BY DECADES, 20 YEARS

YEARS	Deaths	Death rates per 10 000 of Population) EARS	Deaths	Death rates per 10 000 of Population.
1867 1868 1809 1870 1871 1872 1873 1874 1875 1876	4 362 4 437 4 659 5 003 5 070 5 556 5 284 5 738 3 327	32 2 32 2 32 8 34 3 33 9 36 2 35 3 3° 8 34 7 32 2	1877 1878 1879 1880 1881 1882 1883 1884 1895 18-6	5 457 5 334 5 223 5 494 5 886 5 865 5 931 5 798 5 795 5 897	32 9 32 0 30 4 30 8 31 7 31 5 30 3 30 5 29 8
Average	5 099	33 7	Average	5 684	31 2

always exist, and are the unsuspected vehicles of the contagion. We know this to be true of almost all sumption in 1886 was 5897. The percentage of the diseases of this class, and I think we have hith- deaths from this disease to deaths from all diseases.

was 15 83 Arranging the deaths from consumption in two periods, 1867-1876 and 1877-1886, the average of the second decade is found to be 2 5 per 10,-000 persons living less than that of the first decade, that is to say, from 33 7 to 31 2 There has thus been an actual decrease in this disease, and more marked in the second decade than in the first

Our registration report in its precent form gives us no satisfactory answer to one of the most important questions that arises in the consideration of this How often and under what conditions is the predisposition to consumption hereditary? It is, in the very nature of our life, unavoidable that every individual must at many times be exposed to the contagion of tuberculosis, and yet it is within every physician's experience that many members of families with very distinct histories of consumption in more than one generation, do escape

One of the most important and widely spread in- in number, but it is confessed that the death rate as fluences upon the origin and extension of consumption was announced by an honored President of this Association, also the father of State Medicine in Massachusetts-Dr H I Bowditch-fortunately still living in vigorous old age, who, by his announcement and proof of the law of soil moisture and land drainage in their influence upon consumption, has turned the attention of the world to conditions which can be controlled

Pneumonia has generally held the second place on our mortality lists, and has not diminished in relative frequency in recent years

The total number of deaths reported as due to cancer in 1886 was 1104, the ratio of fatal cases among females to the whole number has increased as 1881, 64 4, 1882, 64 9, 1883, 67 6, 1884, follows 66 6, 1885, 68 8, 1886, 69 7 If the statistics relative to cancer during twenty years are divided into two ten-year periods, with death-rates per 10,000 living, we shall find that there has been an increase with a certain degree of uniformity from 29 per 10,000, in 1867, to 5 6 in 1886, nearly double

MORTALITY FROM CANCER, BY DECADES, 20 YEARS

1867 395 1868 445 1869 492 1870 516 1871 551 1872 542 1873 611 1874 585 1875 593				
1868 445 1869 492 1870 516 1871 551 1872 542 1873 611 1874 585	Death rates per 10 000 of Population	YBARS	Deaths	Death rates per 10 000 of Population
x876 657 Average 539	3 5 3 5	1877 1878 1879 1880 1881 1882 1883 1883 1884 1885	646 807 862 928 949 987 1 026 1 060 1,087 1,104	3 4 7 6 2 3 4 4 5 6 6 5 5 5 5 6 5 5 5 5 5 5 5 5 5 5

In England and Wales very much the same increase has been noted, the proportion of deaths from cancer has increased regularly from 2 7 per deaths in the first class has rapidly and steadily 10,000 in 1847, to 5 3 per 10,000 in 1882

The number of deaths from the group of diseases ratio to total mortality per 1000 of 30 5, while the attributed to the brain was 3844, which, though a deaths from dropsy have as steadily and almost as little less than in 1885, was still larger than that of rapidly decreased from a ratio of 25 per 1000 to 59 any other previous year

The mortality-rates per 10,000 in the census years 1860, '65, '70, '75, '80, '85, were successively 12 06, 14 39, 14 35, 16 42, 17 0, and 20 01

DEATH-RATES FROM BRAIN DISEASES IN CENSUS YEARS, AND DEATHS IN 1886

				- 10	UU	
S			DEATH RATES			
5	Mortality rates per 10,000 from	1860	1865	1870	1875	1880 1883
	Apoplexy Softening of the Brain Paralysis Insanity Cephalitis & Brain Disorders To als	1 93 36 3 26	2 08 3 78 3 78 7 61	58	2 78 29 5 43 71 6 91	69 65
	TO dis	12 06	14 39	14 35	16 42	17 00 20 CI

Deaths from alcoholism appear to have diminished cribed to intemperance directly is but an imperfect measure of the evils resulting from an excessive use of alcohol Neither do the figures of the report con vey any just idea of the actual or relative prevalence of the venereal diseases

The fact that Bright's classical description of the diseased processes in the kidney known by his name, was first published in 1837, and the slow progress made in the accurate medical diagnosis of these dis eases during the half century, would lead us to ev pect in the diseases of the kidney an apparent marked increase from year to year

It has been assumed also that the conditions of modern life have brought about a large actual in crease, either from irregular and luxurious living, or improper indulgences in food and drink been claimed by some that the substances now fre quently added to standard articles of food and drink for the purpose of adding to their keeping qualities, or of fraudulently adulterating them, have an inju rious effect upon these organs

The difficulties of answering these questions are much enhanced by the fact that in the early years of our legislation, when the real nature of diseases of the kidney was but imperfectly understood, very many of the deaths really due to this class were reg istered under the head of dropsy Another large class would appear as diseases of uncertain seat, and diseases "not specified "

With these facts in mind, let us tabulate the deaths from Bright's disease and other diseases of the kid ney in one column, and the deaths from dropsy in a parallel column

From an examination of the registration report of 1850, it appears that out of 16,600 deaths there were 18 under the heading of Bright's disease, a ratio of I i to total mortality per 1000, from dropsy 416 deaths were recorded, a ratio to total mortality per 1000 of 25 In the years following the number of grown, reaching in 1886 a total of 1135 deaths, 2 per 1000 If we now add the deaths from kidney

diseases to the deaths from dropsy, we obtain a ratio to total mortality per 1000; beginning in 1850 with 26 1, and ending with 36 4 in 1886

MORTALITY FROM BRIGHT'S DISEASE, MEPHRITIS AND OTHER KIDNEY DISEASES, AND FROM DROPSI, AND RATIOS TO TOTAL MORTALITY

וואוו	Lotal Mortality	Deaths from Bright s Dis erse Nephrits and other Kidney Discuses	Ratio to Iotal Mortality per 1 000	Deaths from Dropsy	Ratio to Lotal Mortality per 1 000	lorais	Ratio to Iotal Mortality per 1,000
18-51 2 3 3 4 56 7 3 9 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 6c6 18 034 18 482 20 301 21 414 -0 734 21 286 -0 7734 21 286 22 974 27 751 28 723 23 658 27 974 27 752 23 637 27 772 23 637 27 732 23 637 27 732 28 733 31 857 33 186 31 342 33 186 31 342 31 807 35 698 36 999 38 994 37 244	18 27 32 33 36 36 36 45 45 46 67 111 130 1735 161 130 239 256 463 239 463 5093 463 5093 463 5093 1033 698 577 959	1 1 4 1 7 7 1 8 7 2 2 1 0 7 9 2 1 0 7 9 2 1 0 7 9 8 4 0 6 6 7 7 1 0 1 9 8 7 6 8 4 0 6 6 7 1 1 4 5 7 1 1 1 9 8 7 6 8 4 0 6 6 5 1 1 4 7 1 6 8 7 6 8 8 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	116 390 416 390 4174 501 487 512 470 467 333 502 492 470 467 618 540 471 618 540 471 618 540 69 474 410 380 271 292 234 2234 224 224 224 224 224 224 224 2	20 6 6 6 9 2 2 1 1 4 2 2 2 4 4 4 2 2 3 4 4 2 2 4 4 4 2 3 3 2 4 5 3 5 5 4 6 9 9 6 6 6 7 6 6 7 6 7 6 7 6 7 6 7 6 7	+34 +17 +50 512 538 557 523 578 531 563 664 632 665 697 777 797 994 1 005 933 947 1 073 955 1 073 955 1 073 955 1 073 957 1 1 234 1 1 332 1 332 1 332	26 1 0 3 3 6 9 2 2 6 3 2 2 5 2 6 3 2 2 5 2 7 3 3 2 2 5 2 7 2 2 2 2 2 2 5 2 7 2 2 2 2 2 2
		11	<u> </u>	<u> </u>	·	<u> !! </u>	<u> </u>

An increase startling enough to attract attention and require investigation, but still not of the alarming character attached to the apparently overwhelming increase of Bright's disease and the kindred af-

We have no evidence in Massachusetts that any of the substances as used for the preservation or upon the kidneys

Another lesson may be extracted from these It is this that statistical nosologies, as well as laws for the protection of public health, are educational and founded upon the learning of experts, and will inevitably break down if they get too far in advance of the common knowledge

The figures also show that, in a sufficiently extended series of years, an explanation of an apparent discrepancy may sometimes be discovered

This hurried glance at the registration tables will have shown this, I think that in all the preventable

marked in the case of small-pox—a disease that can only seriously affect a community through inexcusable neglect

I will not weary the ears of this assembly by dilating upon a topic on which all health authorities are agreed the necessity for compulsory vaccination and revaccination so long as the system is susceptible of the virus

A single comparison will demonstrate the saving of life in consequence of better sanitary conditions established by the authority of a board of health

Probably no single instance of surgical interference in a disease inevitably leading to early death has attracted more attention, has deserved more admiration, or has added so many years to human life as the operation of ovariotomy

The largest number of deaths in any one year in Massachusetts from ovarian dropsy was 51 assume that all of these lives might have been saved

by ovariotomy

Let me take now the city of Somerville, a suburb of Boston, with 29 971 inhabitants by census of 1885, with natural conditions of soil of varied characterpartly favorable, partly unfavorable, with a mixed population almost wholly occupied with business, the trades and day labor It has had an energetic and intelligent Board of Health, who have used the large powers conferred by our statutes wisely They have a system of compulsory notification of the communicable diseases, rigidly enforced, they practice, so far as possible, isolation and disinfection During their active administration and almost wholly in consequence of it, as I believe, the death-rate of the city has been reduced as follows The Board of Health entered upon its work in 1878

In 1875, a census year, the death-rate was 22 86, in 1880 171, in 1885, also a census year, 1668

The improvements are more marked even when certain districts of the city are separately examined

But this examination is scarcely necessary to prove that the interference of a public health authority, by such sanitary regulations as we can now enforce, has saved more lives in a community of 30,000 people, in a single year, than could have been restored to health, in this same period, in a State of nearly 2,000,000 persons, by an operation justly regarded as one of the greatest triumphs of surgery

It may be objected that, with all this apparent diminution in the mortality from selected diseases, there has still been no reduction in the general deathadulteration of food have a marked injurious effect rate, so far, at least, as the figures of the report are to be taken as evidence

It is unfortunately true that our reports, in the earlier years, had a less degree of accuracy than they now have, that deaths were not so generally reported then as now The records of the year 1855 were carefully examined for the purpose of determining the completeness of the enumeration of the deaths in that year It was estimated by a competent authority as the result of the examination, that not far from 16 per cent of the deaths in that year escaped registration

It is now believed confidently that this deficiency diseases there has been a steady reduction, most does not exceed 2 per cent, and the registration by means of burial permits has been made much more as scarlet fever, croup, typhoid fever, dysentery,

Apart from fluctuations in the returns of deaths to the registration offices, there are reasons for believing that some of the conditions are not now so favorable The proportion of the to health as they have been population engaged in factories has steadily and rapidly increased Larger numbers of the people, absolutely and relatively, live in cities, subject to the unsanitary influences that prevail there

In 1875, 63 per cent of the inhabitants of the State lived in cities and towns of more than 5,000 In 1885 the proportion had risen to 73 inhabitants There has also been a large addition to the native and therefore hardier population, of immigrants from foreign countries, whose adaptability to our climate and conditions of life is still uncertain

Too great expectations seem to have been raised, also, by the very brilliant results of sanitary works in Men had to deal there with all the older countries the evils incident to sanitary neglect that had lasted for centuries, and in great cities at that the other hand, the cities have contained a relatively smaller part of the population, and there has not been the same opportunity given for obtaining a result so striking as the reduction in the death-rate of London, for instance, from the high figures at the beginning of the century to those of to day when she is the healthiest very large city in the world

It may be of interest, in this connection, to call your attention to some of the diseases which have attracted general attention, perhaps excited more interest in the public than all other causes of death

In forty-five years and eight months ending December 31, 1886, there appear to have been regis-

tered 1,163,571 deaths

Small-pox has killed 5,572 in this period and has given rise to more legislation than any other single disease, and is the one most easily controlled provision of law is the beginning and end of its regulation-and that is compulsory vaccination and revaccination

Scarlatina has destroyed 37,666 lives, permanently impaired the value of a large but unknown number, and the attempt to prevent it by sanitary regulation

belongs to recent years

Typhoid fever has been fatal to 45,871 human beings, generally in the prime of life With an origin almost always in fæcal pollution, it becomes epidemic whenever that pollution reaches a water supply or The general conditions which food, especially milk sustain this disease in its endemic form and favor its epidemic spread are the same which produce general unhealthiness

It has been well said that an epidemic of typhoid fever is a sanitary crime and should be punished as But the peculiar history of this disease has had but little influence on legislation in this country

Epidemic cholera, the most persuasive apostle of sanitation that has been permitted to land on these shores, has destroyed from 1832 to this year not more than 2,000 lives In no one year, excepting 1849, the year of greatest prevalence, has it proved so fatal a distance?

pneumonia, whooping-cough, cancer or apoplety, and even in 1849 the deaths from cholera did not vary much from the quarter part only of those from consumption

Hydrophobia is represented by 72 deaths More than half of these occurred in the four years 1876-79 There has been no death from it since 1881

Thirteen deaths from yellow fever have not been considered of enough consequence to be given a place in the general summary They occurred at the quarantine station in Boston and did not, perhaps, recall to any public health officer's mind the fact that about the beginning of this century yellow fever had in more than one year been a pestilence in the city itself

Our experience in State preventive medicine has proved this that while great good can be done to any community by the establishment of a board of health, whose functions are largely those of instruction and advice, it is certain that, sooner or later, the people will place in the hands of those capable of exercising such powers the machinery for making that advice effectual And this has happened with regard to every subject which has been successively made an object of inquiry. There is now ample authority for the control of public water supplies and systems of sewerage, sufficient legislation to punish and prevent the adulteration of food and drugs

One of the most encouraging signs is the more intelingent view taken by the public of the questions to which self-interest seeks to attach a sanitary signifi

Perhaps the much-vexed question of oleomarga We have rine may be taken as an instance of this in this substance a legitimate commercial product which, when properly manufactured, is a safe and It can be so useful addition to our food supply When sold as natural butter made and is so made it becomes an impudent fraud and should be punished But it is no more a matter of concern to sanitarians than the proper making of butter itself is, and some of our legislative bodies appear to so regard it

It has been well said by one of the most eminent of the executive officers of health, Dr Russell, of Glasgow, that "nothing is more conspicuous than the helplessness of the individual under the conditions of civilized life to secure the physical basis of health

How can any single individual in a crowded city make any successful effort to improve, or even to ascertain the quality of the public water supply upon which he is exclusively dependent? What can he do to secure a sufficiently prompt and safe removal of the waste materials of his daily life? How can he analyze the ingeniously sophisticated articles of food or medicine which may represent the ingenious employment of all the scientific skill that selfish capital can purchase? How vain it would be for him to at tempt to prevent the crowding of the city, or the contamination of the air which he is obliged to Lastly, how can he recognize the presence of communicable disease, and recognizing, keep it at

There is no help but in cooperation on the most extended scale possible, individual, municipal, State and National The individual must be compelled to The great give up his liberty to injure his neighbor city must be restrained from converting the stream that flows past it into a sewer that shall poison the small villages that cluster about its banks lower down in its course The country farmhouse must no longer, when a case of enteric fever occurs there, be a menace to the water that supplies a thousand city houses No State should permit its own causes of disease, whatever they are, persons or things, to be transported into another State, nor pollute the common Lastly, the General Government water supply should take cognizance of those causes of disease which can be controlled by no other power, or which are so general that the responsibility for them is National, or so overwhelming in their ravages that smaller political bodies have lost the power, if not the will, to protect the people

Voluntary association on the part of persons, towns, States, or Nations even, will never establish a sufficient safeguard when one dishonest or ignorant associate has it in his power to nullify all the effects of a neighbor's spirit of self sacrifice and restraint

Epidemic disease is an evil that cannot be left to work out its own cure, it widens its circle too rapidly, and the time is long past when any quarantine, using the word in its older sense, would be sufficient to restrain a pestilence within the limits of the district whose sanitary crimes might have fairly deserved some punishment

How, then, shall we organize for the protection of

the public health?

For the individual, that he may not injure his neighbor through his own ignorance or that of his adviser, let the State give him some assurance that the legally used title of physician designates a person sufficiently qualified to give advice for the prevention and cure of disease—and a certainty, also, that the

quack who steals the title shall be punished

Establish, by direct provision of State law, local health authorities for each well-defined unit in our various forms of local government village, town, city or county Place in the hands of these authorities the execution of the laws of the State and all local ordinances and regulations pertaining to the public health, impress upon them the duties of watching all those conditions which immediately affect the health of the people, water supply, sewerage, san. tary condition of school houses and scholars, factories, tenement houses and the markets, periodic inspection of the inhabitants to prevent the neglect of vaccination, house to house inspection at least an-In brief, they should have all the powers which society assumes for protecting the public health

To meet the possibility that some districts may not have intelligence enough to appreciate, or that powerful commercial or other interests may interfere with, these laws, there should be a State authority with

ample powers

This would be called upon for the purpose of har monizing the action of the various local boards, where the interests of various localities were involved. It

should have coordinate power with all local boards in cases of communicable disease, in order that its action may be prompt and salutary It should be enabled to carry on scientific investigations as to the causes of disease, to suppress novious and offensive trades, as it will often happen that some great industry will possess in a community an influence sufficient This condition to control the local board of health did in fact exist in Massachusetts, and no action of our State Board of Health in its earlier years was more heartily commended than that which transformed a town pestilent and disgusting from some fifty slaughter houses into an attractive suburb of The business of slaughtering and rendering is now, in consequence of the action of the Board, carried on in an abattoir entirely without offense

This authority should also have the supervision of the laws for the prevention of the adulteration of

food and drugs

It should have the general oversight of the public

water supplies

It should have charge of the registration of vital statistics, and of the investigations of the diseases of animals so far as they affect the health of man

The educational element should be always present in the work of the State and local boards of health, and as in all other affairs of life the value of the lesson will stand generally in direct relation to the cost of it. The person who receives the benefit of a sanitary improvement should pay, if able to do so, a part, at least, of the cost, and should never be permitted to lose a sense of the obligation of preventing the spread to his neighbor of unsanitary conditions of his own making

All the arguments that have been used for the existence of State health authorities are also available, it seems to me, for the creation and support of some organization for the protection of the public health in connection with the general government. I think that the medical profession is agreed, that no power less than that of the National Government will be sufficient to prevent the introduction of disease from abroad, or control its transport from State to State. There is, of course, a question as to what form that central authority should take and how extensive should be its power.

The well being of the country, to use the language of the Constitution, should imply that we must know all that can be known about those diseases and causes of disease which may affect the whole country

Although the actual epidemic prevalence of disease of grave and frequently fatal character may be limited to certain districts, still the disturbance of commerce and the ordinary relations of life will extend to large sections of the whole country. Therefore the National health authority should have the power and the means necessary for a thorough investigation of the communicable and epidemic diseases and of the best means of preventing their spread. These investigations need not be limited to this country, in fact, it is quite evident that several of the most important diseases of this class must be also studied outside of the country, yellow fever, for instance

The General Government should also make avail-

able for use in all parts of the land, the information from foreign countries, as to the prevalence there of likely to do so in the future, and is at the same time contagious and epidemic diseases communications as may be made by consular officers, for these as a whole have probably no great scientific value, but that great mass of information which through one channel or another reaches Washington

To this should be added the statistics of mortality and disease already published by very many boards of health throughout the land, and not now readily available for use, except by difficult and tedious search | dies through many documents accessible to few

naturally be associated some arrangement for the pends, it seems to me, very much upon the form of prompt receipt of information from all sections of the organization. If that of a board should be se the existence of dangerous communicable diseases, for the purpose of warning from a central office all interested communities A voluntary system of notification, established by the National Conference of the State boards of health, has proved of much service, notwithstanding the fact that some of the great States have abstained from giving this information in a useful manner But the usefulness of this method of communication has been seriously limited by the want of a central office with comparatively simple system for sending prompt advice in any required direction

Not the least of the very many claims of the National Board of Health upon the medical profession was its attempt to secure uniform systems of registration and vital statistics, and a nosology adapted to the changed views now entertained as to the nature This work should be taken up of many diseases again and carried on, if necessary, by liberal appropriations for the purpose of encouraging and assisting everywhere a continuous registration of vital statistics ın suitable manner

Dr Billings, the wise and experienced officer in charge of the Mortality and Vital Statistics of the 10th Census, says

"But, as the United States has no system of registration of vital statistics, such as is relied upon by all other civilized nations, for the purpose of ascertaining the actual movement of population, our census affords the only opportunity of obtaining even an approximate estimate of birth and death rates of much the larger part of the country, which is entirely unprovided with any satisfactory system of State and municipal registration, and the data which the census gives, imperfect as they are, are the only ones by which we can compare the healthfulness of this with that of other countries, or can ascertain, even approximately, the relative salubrity, or liability to particular forms of disease, of different parts of our own territory" And again, "Nothing pays better than good book-keeping in national affairs, and in no part of a nation's work is good book-keeping more useful than in keeping records of the life and health of its people "

The most troublesome point in the whole enquiry How far should the General Government enter into the management of quarantine?

the assistance of the authorities at Washington dur- office

ing any pestilence within her own border, and is not Not simply such fortunate enough not to have felt for three quarters of a century the terrors of the pestilence which has wrought such havoc in other States With all this I say, that it seems to me the duty of the whole coun try, through the national authorities, to assist those communities which are too weak to help themselves, and to undertake the health functions of local gov ernment for those too ignorant to know their reme

A satisfactory settlement of the question as to the In connection with this statistical work would power to be bestowed on the national authority de lected with an adequate representation of the separ ate States, there would then seem to be no senous objection to the bestowal upon this board of a direct control of quarantine The points in dispute be tween the General Government and the States would appear to be safe in the hands of a board of national authority and directly representative of the States It is quite probable that such a board would be cum bersome in form and not altogether easy to controlwhich is far from being an unmixed evil—but there are many contrivances by which a large board can delegate its powers to an executive committee during the intervals between the general meetings—meetings which need not be frequent I can easily see, how ever, that this question is one for the law-maker rather than our profession

The only alternative seems to be a single officerat the head of a bureau in connection with some one An officer not of the departments at Washington charged with great executive powers, who shall have, so far as it is possible, unlimited authority to investi gate, by himself or by competent experts, the ques tions which directly relate to protective medicine He should be at the head of all the current medical statistical work of the Government, with the excep-He should be in tion of that of the public services constant and harmonious relations with the scattered health authorities of the land and should be permitted to cooperate with them in sanitary work He should be subjected to the distractions of no other serviceneither of the Army, of the Navy, nor of the Marine The vast dimensions to which Hospital Service State medicine has already grown, the apparently unlimited field for future extension, make it evident that nothing less than all the thought and all the working hours of the best man are not too much to be devoted to the supervision alone of the investiga tions which ought to be made not in one year of epi

demic panic, but through all years The very manifest advantage to this officer of a board of advice could and would in the very nature of things, be afforded by some representative of the State boards of health, quite similar, perhaps, to that now existing in the National Conference of State The need of early and confider nal inter course with these intelligent, active and responsible bodies would suggest itself at once to the sagacity of Though I come from a State which has never asked any man who would be likely to hold this important

and the Bureau of Education have from time to time and educational interests of the whole country

Of the sanitary investigations carried on by the authorities at Washington, with the exception of those under the direction of the National Board of Health, it is not possible to speak with much satisfaction Not that the scientific men who conducted them were have been But it was very difficult in a year of health to secure the necessary action authorizing inwill be equally difficult to secure the means of continuing the work

Dr Shakspeare was sent abroad, in 1885, to make Southern Europe Beyond a few brief notices in the meagre appropriations medical journals, one State board of health at least knows nothing, through any official information through any department at Washington, of the results of the enquiry As the board of Health alluded watching the second largest port of entry in the hopeless lethargy knowledge is inexcusable

American Public Health Association, as well as at the meeting of the National Conference of Boards of Health, measures were taken for bringing to the attention of Congress some of the alleged facts in regard to the preventive inoculations in yellow fever practice in Mexico, by Carmona, in Brazil, by Freire Congress was requested to appoint a committee of experts to visit these countries and ascertain the truth of the statements made Notwithstanding the apparent willingness of the authorities to grant the petition, the mevitable delay attendant upon National legislation prevented action until the summer of 1887, when the appointment of a single expert was authorized The President, with great promptness, appointed an expert of the best qualifications—and Dr Sternberg made a journey to Brazil, and subsequently to Mexico The year does not appear to have been so favorable for his purpose of studying the subject during the general prevalence of the disease as one of the preceding years would have been. Nor under his rigidly drawn instructions does he seem to have had all the advantages that would have accrued to an investigation less controlled by precise orders

Unfortunately, the evidence submitted by Drs Carmona and Freire appears to have been entirely prophylaxis of yellow fever by their inoculations been yet demonstrated

the result, that seems only just beyond our grasp, will find these claims, however, had been advanced so confidently by men holding honorable positions, inocula

I believe that both the Department of Agriculture tions had been made on so extensive a scale, that a formal examination had become a necessity called to their aid representatives of the agricultural Sternberg's investigations are worth all the money that has been spent upon them The way has been cleared for an exhaustive examination of this most virulent of important pests, an inquiry that should have no limit of time, short of the discovery of a sufficient cause, and if possible, of a preventive, even if an expenditure of money be required, only not entirely competent, it would have been difficult less than the number of dollars that inadequately to have found men as well qualified as many of them measure the country's losses and sufferings under this scourge

It would be a satisfaction to all of us, I am sure, vestigations of diseases that might at any time enter if Dr Sternberg is enabled to complete the work so our country, and there is every probability that it faithfully and intelligently prosecuted from the Havana investigation of 1879 to the present day

But it must be regarded as a misfortune that scientific work of this sort should not be continuous, and investigations of Asiatic cholera, then raging in free from the irksome burden of limited time and

I approach the conclusion of this possibly wearisome repetition of common-places with some hesitation, for I wish to say a few words about the National Board of Health, still by Act of Congress in to is charged with the coordinate responsibility of legal existence, by neglect of Congress in a state of This Board entered upon its Union-which has a more frequent communication work with every promise of success-the members with cholera infected ports than any other, except of it were the best our profession could offer—the New York, the failure to communicate valuable contributions to public hygiene, both by the services of its members and the labors of its experts, have Again, in 1885, at the Washington meeting of the their due and honored place among the records of such work the world over

It demonstrated for the first time in this country, I venture to say, that local, State and National health authorities could profitably and harmoniously unite in suppressing an epidemic of yellow fever, and preventing its spread from State to State, and that, under the influence of an impartially vigilant sanitary inspection and treatment, trade and commerce need not materially suffer Yet all this has not saved it from practical extinction Mistakes were probably committed, but they are trivial as compared to the I feel forced, for my own part, merits of the Board to the conclusion that its organic form—quite distinct from that of a body of such powers with which I am acquainted, and unlike anything in our own National Government-must explain the failure to survive the unjustifiable attacks made upon it

The presence upon the board, of representatives of the Army Navy and Marine Hospital Service, however conspicuous may have been the attainments of their respective representatives, was not ad-They represented interests which ordivantageous narrly are of far less consequence than those of New York, Chicago, New Orleans, or San Francisco

It would not be possible, I think, to select seven insufficient to justify the claims made by them of the men—that being the number of the appointed memdiscovery of the yellow fever germ, nor has a bers of the Board—who should adequately represent the various divisions of the country The States are not accustomed to a representation at the hands of It is a disappointment that we have not reached other States, and the State not directly represented will find it difficult to understand the principle of

The great States of Ohio and Pennsylvania have

not been directly represented on the existing Board Is it well to wait until a new outbreak of yellow fever, or the landing of cholera gives us legislation

founded only in the weakness of fear?

I cannot but think that it is better to have the substance of things whether it comes in the form of Bureau of Health or Board of Health, provided only that some of the great resources of the Nation shall be turned to the protection of that property which is at least as valuable as the cotton fabrics of a Massachusetts mill or the wool of Ohio sheep mean the protection of that greatest property of all -human life

ORIGINAL ARTICLES.

CASES OF IDIOPATHIC ANÆMIA

Read before the Medical Society of the District of Columbia, February 8, 1888

> BY ROBERT T EDES, MD, OF WASHINGTON D C

I do not intend here to give a systematic history of this interesting class of cases, but only to call attention to some of the prominent points illustrated by some which have fallen under my own observa-A very complete and lucid account of the general subject is to be found in the article by Dr Osler in "Pepper's System," vol in sary, however, for the sake of clearness, to mention the more characteristic and diagnostic points which justify us in giving to a case of anæmia the designation of idiopathic, essential, or progressive permi-The latter adjectives are only applicable to a part of the cases which are properly classed together by every characteristic except a fatal termination, and it is not justifiable, certainly until the nature of a disease is better known than that of the one under consideration, to incorporate in its name a prognosis which is not an invariable one

The first of these points is the intensity of the anæmia, often, and, indeed, frequently, without emaciation, or at any rate with a degree of emaciation which does not correspond in degree to the anæmia The color of the skin in cases of this kind, owing to the fat which is still retained under it, is yellow and waxy rather than white, as it is more likely to be in the forms of anæmia depending on malnutrition, and might sometimes suggest jaundice, but does not, of

course, extend to the conjunctiva

The count of the blood corpuscles is low, lower even than the amount of coloring matter would indicate, presenting in this respect a marked contrast It not infrequently, to the anæmia of chlorosis even in cases which recover, falls below 1,000,000 to the cubic millimetre, the normal being in the following cases, where it would have been difficult, in neighborhood of 5,000,000 for men and 4,500,000 for women

The proportionate color of the blood (hæmoglobin) may be a little greater, so that the individual corpuscle is even a little richer in hæmoglobin than normal In chlorosis, on the other hand, the hæmo- the prognostic views associated with it, the recover,

globin contents of the blood are much more dimin ished in proportion, and the individual corpuscle is much less colored than it should be

A few weeks ago I counted the corpuscles of a chlorotic young woman and found but little diminu tion of the count below normal, while the color test (which has been several times repeated with the same result) gave only about one-third of the normal

The shape of the corpuscles is irregular They become swollen, more nearly spheres than discs, and sometimes look like a foot-ball partly blown up, or they are elongated and assume the shape of a pear, a battledore, or a snow shoe, or they have tails This is more obvious in a fresh than in the dried specimen In size also they vary within wider limits than the normal, and there are found very large and very small individuals (megalocytes and microcytes).

The specimens I show here were kindly photograped for me from a dried specimen of the blood of the last case I shall report, by Dr Gray, of the Army Medical Museum I show a photograph of normal blood by way of comparison Some other less important and less constant changes are sometimes observed The proportion of white corpuscles is not materially changed

While the irregularity of shape would of itself, in a case of which nothing else was known, be sufficient to raise a suspicion of idiopathic anæmia, yet it is not quite certain that severe anæmia of other forms may not produce them I have myself seen in other cases alteration in the shape of the corpuscles, not equalling in degree, but resembling, that of the form now under consideration

So much for the form of anæmia The next point is that there is no discoverable adequate cause for the condition, and here, of course, comes the oppor tunity for many difficulties and errors in diagnosis It is obvious that many obscure diseases attended by a secondary loss of corpuscles and color may, before their true nature is discovered, be considered Abdominal cancer, not yet eviidiopathic anæmia dent to the touch or not giving rise to distinct local symptoms, is one of the conditions likely to be sus pected among the first Anæmia from hæmorrhage which the patient does not think of sufficient conse quence to mention, chlorosis, the various obscure diseases connected with changes in the spleen, lymphatic glands or suprarenal capsules, may counterfeit it more or less closely A case in which idiopathic anæmia was among the conditions suspected, but which was found at the autopsy to be one of chronic pancreatitis, was reported in THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION for December 24,

The difficulty is not lessened when, as not infrequently happens, there are slight symptoms pointing in some other direction, as will be seen in two of the the absence of a microscopic examination of the blood, to say that the anæmic appearance of the patients was not due in one case to an interstitual neph ritis, and in the other to a chronic diarrhœa.

If we adopt the most alarming nomenclature and

of the patient may be a fortunate but confusing element in the diagnosis

The details of symptomatology I do not propose I will only mention, as of especial importance, digestive disturbances, great weakness, dyspnœa on exertion, and various hemorrhages, including cerebral and retinal, the latter of which may have considerable diagnostic significance

The most noteworthy recent contribution to our knowledge of this affection has been the observation, now many times repeated, that in a certain number body, and also retinal hæmorrhages of cases marked atrophy of the stomach tubules co-The temptation is naturally exists with the anæmia strong to attribute the anæmia to lack of nutrition It is, however, not yet certain that the atrophy is not simply a part of a general degeneration, and dependent on, rather than causing, the diminished nutritive power of the blood

The gastric symptoms, though present in these cases, are not so marked as we should expect to find in a case which is to end in so excessive a degree of anæmia. They are not by any means so severe as we may meet with in cancer or ulcer of the stomach, and yet the failure in the nutrition of the blood is much greater

If it can be shown that, in a certain proportion of cases, gastric atrophy distinctly precedes the development of an extreme anæmia having the features tion of the form we are describing, it seems to me we can phy of the mucous membrane no longer call it "idiopathic or essential," for the cause is an adequate one, and we can only say that certain kinds of gastric (and perhaps further investigation may show, intestinal) atrophy, give rise to a set of symptoms closely resembling those which occur in other cases in which no such lesion can be found It is to these cases that the adjectives "progressive pernicious" most strictly apply

In another set, intestinal parasites, especially tæniæ, have been found, but not frequently enough to establish a rule, or to do more than make it desirable, in forming a diagnosis, to exclude this possible condition, which, however, has not, so far as I am aware, been noticed in this country Neither are we afflicted with the anchylostoma duodenale which, among the workmen in some of the tunnels under the Alps, have been found to be the cause of a severe form of anæmia.

As regards enology I can only say that in none of the cases I have to report has either of the most common causes been present These are the puerperal condition or severe mental shock

CASES

I. An old soldier of characteristic appearance, with a blood count below 1,000,000, but to per cent of hemoglobin, had a slightly enlarged spleen for a time, but it soon disappeared from touch might have been considered a case of leucocythemia had the blood not been examined and found not to contain any excess of white corpuscles in proportion He was soon lost sight of, but I have little doubt that his life was not long

his face and soon began to have headache, dizziness, and noises in his ears When seen he appeared muscular, not emaciated, but his skin was almost yellow and his mucous membrane nearly white. He expressed himself as feeling strong, and was not sure that he could not lift a barrel of sugar out of a wagon as he had been in the habit of doing, although, half an hour previously, he had nearly fainted on walking from the ward to the lecture-room

There were a good many purpuric spots on his

A blood count gave less than 670,000 red corpuscles to the cubic millimetre, but there was not so much change in shape and size as sometimes seen The further progress of the case was unfortunately simple and uninfluenced by treatment He steadily and rapidly lost strength, becoming so weak that he could hardly move in bed without danger of fainting Delirium, diarrhœa, great dyspnœa on exertion preceded the fatal termination, which took place about seven weeks after he first felt himself sick topsy revealed extreme anæmia without great emaciation, there were ecchymoses in various organs There was granulo fatty degeneration of the heart and kidneys, and there were opaque yellow patches in the stomach which may have been fatty, but of which there is no record of a microscopic examina-There certainly was not any well-marked atro-The aorta was of somewhat smaller calibre than usual, and its walls The marrow of the femur was in places red and jelly-like, and contained, in addition to the usual constituents, a few nucleated red corpuscles marrow of the sternum was of a reddish-yellow color, but was not examined microscopically

This was as typical a case of the "progressive pernicious" form as one often sees, and yet both symptoms and lesions remove it clearly from the class of those dependent (if any are) upon gastric atrophy, although it is by no means improbable that, had the patient lived some weeks longer, such an atrophy, consequent upon fatty deneneration of the glandular

elements, might have followed

III A middle-aged woman was seen in consultation, presenting the characteristic external appear-The blood was pale, but the corpuscles were not counted, as, not knowing the sort of case I was going to see, I had not provided myself with the necessary apparatus They were, however, irregular in shape and size Nothing else could be found by She died in about ten days physical examination

In this case there had been no pregnancy for some

years and no mental shock

IV The next case, more chronic in its course, was that of a college professor 57 years of age had been a good deal of trouble in his family in the way of sickness and sudden death, but hardly anything that could be called a shock

His general appearance was sallow, his face and His appetite was good and his digestion hands brown, partly at least from exposure, his legs His wife had noticed the dark color y ellow complained chiefly of weakness, so that going up a II A young man, who had previously considered slight elevation distressed him, and of oppression or himself healthy and strong, noticed a loss of color in sinking across the chest and in the epigastrium

His mind was clear There was Pulse 100 to 108 only slight and occasional digestive disturbance Nothing was to be found by the usual physical examination except a soft systolic souffle along the left

edge of the sternum

The blood was not examined, partly because I had not prepared myself with the apparatus, but chiefly because my mind was occupied by a diagnosis which turned out to be erroneous This was Addison's dis-The diagnosis of his attending physician, a man of wide experience and learning, rather inclined to abdominal cancer

After some weeks, during which I did not see him again, he died, and there were found fatty changes in various organs and red marrow in the bones There were no changes of the suprarenal capsules

V A man, at about 55, had been sick three years with anæmia without known cause, had recovered under the use of arsenic, again had the same trouble

and again partial recovery

When seen, in June, he had been failing since De-He was very pale, his face a cember or January Nothing was to be got by physical little bloated examination except a tender spot at the epigastrium There was no jaundice, no and one lower down It was supposed that hæmatemesis and no polyuria there had been some fat in the stools The blood corpuscles were irregular in size and shape diagnosis was idiopathic anæmia with a possibility of cancer about the head of the pancreas

The autopsy, at which I was not present, showed the muscles to be dark-red, but the other tissues The stomach was thin and pale, the pylorus and duodenum contracted to about one-third the ordinary size, small intestine pale but healthy Pancreas normal, mesenteric glands somewhat en-There may have been some increase in the larged Unfortunately, connective tissue of the kidneys there was no microscopic examination of the stomach or of the marrow of the bones

An examination of the gastric tubules would have been highly satisfactory, but there seems good reason to suppose, from the gross appearances, that this was one of the cases of atrophy of which several have

been minutely described

VI A ship carpenter æt 41, a man of large frame, not fat but by no means emaciated, had not Complexion pale and yelbeen well for two years He complains of weakness, headache, and dyspnœa on exertion, and loss of appetite His sight is dim and he is somewhat deaf Slight cough without expectoration, pain in the lumbar region has had a little cedema of the feet and ankles urine shows some traces of nephritis, which disap-The improvement in this peared in a few days respect, it should be noted, took place before his general condition was much better

The diagnosis might easily have been made of a moderate nephritis in the way of recovery, had not the condition of the blood, both as indicated by his complexion and the count, been entirely out of proportion to the amount of nephritis The characvarying both in size and shape, while the successive of the eye gave negative results ter of the corpuscles was of the usual kind, they counts were as follows

May 20, 780,000, May 27, 735,000, May 31, 955,000, June 7, 1,290,000, June 14, 2,036,000, June 24, 2,695,000

This is one of the cases where uncertainty in diag nosis arises from recovery Soon after this last count the patient eloped from the hospital and continued well enough to elude my search as, although I got distant tidings of him as being pretty well, he evi dently thought I wanted him for some legal rather than scientific purpose At an early period of his sickness, after about a fortnight of very careful feed ing, rendered necessary by his deficient nutrition, being, in fact, partly by the rectum, he made an un authorized meal of ham and eggs without harm, which seems a valuable piece of negative evidence as re gards any atrophy of the stomach The treatment, in addition to the diet, consisted in arsenic in the form of Fowler's solution

VII D C P, a young man, with chronic diarrhœa, anæmic, very weak, pale and listless The diarrhœa improved and disappeared under the use of large mildly astringent enemata

Examinations of his blood were as follows

Oct 14, 763,000 No excess of white A good many of small diameter A good many pointed and tailed Oct 21, 1,019,000 Oct 31, 1,877,000 Nov 5, 1,665,000 Nov 10, 2,178,000 Nov 15, 2,438, 000 Dec 10, coloring matter about 50 per cent of the normal Dec 13 Discharged, gaining in flesh, strength and blood Went to Florida

VIII A man æt 71, of active habits, had not been well for two years except during a visit to Califorma the previous winter He was seen on January Last September he noticed shortness of 13, 1887 breath on exertion, his feet and legs felt cold Six weeks ago, on going out into the street, felt a sudden weakness of the legs and was obliged to return, which he did with much difficulty, being hardly able to get up the doorsteps When I saw him he was in bed, though he was able to stand up for a part of the He complained chiefly of coldness examination and stiffness of the legs, as well as of weakness but There was considerable pain of no pain there about the rectum which turned out to be largely due to his over anxiety on the subject of his bowels and consequent over treatment. It soon ceased to give him further trouble A sensation of constriction or pressure across the lower part of the bowels was a constant accompaniment of the case and seemed to have little or nothing to do with any condition of constipation or otherwise

With the history of his sudden attack and the peculiar sensations and weakness in his legs my atten tion, like that of his family and his former attendants, was naturally directed toward any evidence of spinal The limbs could be moved freely in any disease desired direction as he lay in bed were flabby and small but not decidedly atrophied and reacted well to the faradic current Sensation was everywhere present, and both superficial and deep reflexes were of nearly normal intensity could stand with his eyes shut

Examination of the urine, rectum, and the fundus

heart transmitted toward the right, and some prolongation of respiration over the whole chest, but no distinct rales I should have said that their was considerable expectoration of thick mucus A count of the blood a week after my first visit gave 1,575,000 to the cubic millimeter with many of the corpuscles irregular and small My diagnosis excluded any distinct organic spinal disease, as hæmorrhage, soften ing, or inflammation, or the systematized scleroses, and attributed the abnormal sensations and the pseudoparalysis to anæmia of the cord as a part of a gen-I was not able for some time to rid eral condition vertebræ, or of some abdominal organs, but repeated physical examinations with negative results, and the absence of any new symptoms pointing to such growth, together with the positive results of an inspection of the blood, left no alternative open but idiopathic anæmia Whether the feeling of tightness across the lower part of the abdomen was simply an abnormal sensation like the rest I could not be sure, but it certainly was not due to any distension or growth.

The dependence of a well-marked paraparesis upon a general an emia is a phenomenon of sufficient interest to justify a digression Anæmia and hyperemia of the spinal cord, from the very nature of the case, and in fact much like the corresponding conditions in the brain, have been the subject of many more suppositions (most of them reasonable it is true) than of direct observation

Localized anæmias of the spinal cord may be produced by obstruction of the aorta or by embolism of the spinal arteries A theory has also been held that in some of the so called reflex paralyses a spasm of the vessels cuts off the blood supply from more or less limited areas of the cord With these, however, we are not at present dealing

The existence of a paraplegia dependent, not upon a local anæmia, but upon a general one is, however, admitted, though certainly not at all common in a well marked form Cases of paraplegia after severe puerperal hæmorrhage, such as have been a large proportion of those reported, cannot be regarded as quite so conclusive in this way, since other puerperal processes like septicæmia and thrombosis may complicate the matter, but undoubtedly a part of them are of this character There have been, however, others where large hæmorrhages from the bowels have been followed by a temporary paraplegia, and one where such a paraplegia consequent upon uterine hæmorrhage and in process of recovery, underwent two exacerbations on renewal of the hæmorrhage Another case occurred after profuse epistaxis

Last winter I saw with my friend Dr Bates, of the Navy, a case of this kind, a young man under the care of your Secretary, Dr Adams, who intends to report in full He had suddenly lost the power in His history at first would have led one to suppose that the sudden paralysis was the beginning of his illness, and naturally enough to think of hemorrhage into the cord or its membranes or a very rapid enteritis from which he rapidly sank my elitis, but it appeared on further inquiry that he

There was a systolic murmur at the base of the had been having frequent and profuse hæmorrhages from the rectum for a long time previous, but had kept about his usual work until this attack saw him there were no disorders of sensation, his reflexes were normal, and voluntary motion of every kind was present though not very strong. The hæmorrhage, which came from a small vessel an inch or two above the anus, was being treated by Dr Adams with the result of a complete restoration of the functions of the spinal cord

It is not difficult to explain why deficient supply. of nutriment should affect the spinal cord sufficiently to cause a loss of function, but it is not so clear why myself of the suspicion of malignant disease of the the cessation of function should come on so suddenly when the condition that causes it must be gradual in its development, nor why it should be confined to the lower segment of the cord when the anæmia is

general

We can find analogies, if not an explanation, for the first difficulty, as for instance, in fatty degeneration of the heart which certainly must be developed very slowly but which kills very rapidly The nervous centres of the heart pushed to the full extent of their failing powers break down under a sudden increased demand The last straw breaks the camel's As to the second, there may be some conditions of the circulation which render the effects of a general anæmia more perceptible in the lower part of the cord, or, what is more probable, that the lumbar enlargement is sooner exhausted because more usually called upon for a constant expenditure of energy than that portion which supplies the arms is often noticed in animals coming under the influence of a paralyzing poison that they continue to drag themselves around by the fore paws when the hind legs no longer support them

Hilton Fagge says he knows of no case where anæmic paraplegia has been reported in connection with pernicious anæmia, but the fact of his making the remark shows that this sagacious observer recog-

nized the possibility of such a connection

The further progress of the case is briefly told Careful feeding and the use of tonics, especially arsenic and strychnine, improved the nutrition patient gained a little flesh and a little strength His blood counts went from the original count, on Jan 21, 1,575,000, Jan 28, 1,425,000, Feb 26, 1,620,000, March 27, 1,850,500, April 19, 2,060,000, May 23, 2,250,000, June 13, 2,540,000, coloring matter 70 By this time he had gained considerable per cent flesh and some strength, was eating, enjoying and digesting, a very good variety of solid food noticed soon after this that the patella reflex was wanting, but there were no other symptoms of increasing paralysis There was a good deal of stiffness and some pain about the hips and the hands, and one episode of constipation and irritative diarrhœa relieved by a dose or two of castor oil question of his going away to avoid the hot weather was discussed, but he preferred not to give up the comforts of home until he felt stronger, and during the extremely hot weather of last July he contracted an

The only notable point in the treatment, not al-

ready mentioned, was the use of inhalations of oxygen | kidney, in beginning suppuration, nephrotomy It for some weeks, but so far as the patient or I could is also advisable to remove the organ in prolapse see, it did no good

MEDICAL PROGRESS.

SURGICAL INTERVENTION IN AFFECTIONS OF THE KIDNEY -A BRODEUR has published a work entitled "De l'Intervention Chirurgicale dans les Affections du Rein" (published by G Steinheil, Paris, 1886) in which he examines 327 operations on the kıdneys

Of the 327 operations 212 were performed on females, 94 on males, with 15 children, and 6 cases in which the sex is not given In 136 cases the right, and in 105 cases the left kidney was concerned 86 cases the side is not mentioned Of the 327 operations there were 235 nephrectomies 125 lumbar with 62 4 per cent of recoveries, and 110 abdominal with 50 per cent of recoveries There were 43 nephrotomies 34 lumbar with 67 64 per cent of recoveries, and 9 abdominal with 77 77 per cent of cures, 39 nephrolithotomies 36 lumbar with 77 77 per cent cures, and 3 abdominal, all of which died Ten lumbar operations for nephrorrhaphy, with 90 per cent of recoveries 200, 61 16 per cent, were followed by recovery 1885 S W Gross recorded 233 collected cases of from laryngeal tuberculosis operation on the kidneys, with a mortality of 44 6 per cent, including 93 nephrotomies with 23 1 per cent mortality In a later communication he gives a collection of 17 nephrorrhaphies with only one death

The indications for the different surgical operations on the kidneys, as given by Brodeur, may be thus moist râles at the apex of the left lung. The epi

In wandering kidney which causes severe symptoms, nephrorrhaphy should first be tried after the failure of other measures, and if this be unsuccessful the mucous membrane covering the arytenoid carti nephrectomy should be done

In hydronephrosis which calls for operative treatment, and in suppuration of the contents, Brodeur tite was poor recommends nephrectomy Should a fistula remain, a nephrectomy may be done later under favorable few days' rest was prescribed, during which medicinal circumstances

In simple congenital or acquired cysts of the kidneys, including echinococci cysts, the author advises against nephrectomy, and holds that nephrotomy only is allowable

In carcinoma of the kidney Brodeur believes that, on account of the heretofore very unfavorable results, the surgeon should not proceed to a radical operation without careful examination of the other kidney, whilst for sarcoma of the kidney, he strongly advises extirpation, as well as in cases of benign In small, painless, and otherwise not renal tumors troublesome benign renal tumors the surgeon should at first abstain from any operation

In severe contusion of the kidney the author voice adopts Simon's rules In uncontrollable hæmor- peared, expectoration diminished, nocturnal cough rhage, ligature of the vessels and resection of the ing ceased Dr Heryng, who examined the patient

with threatened gangrene

In renal and ureteral fistulæ which cause much trouble to the patient, nephrectomy can seldom be avoided

In renal calculus nephrolithotomy by lumbar in cision is most advisable, more so than depriving the patient of a kidney by a dangerous operation. In pyelo-nephritis due to concretions, on account of the comparative frequency of affection of both kidneys nephrotomy or nephrolithotomy is preferable to nephrectomy For the same reason nephrotomy is to be prefered in suppurative pyelo-nephritis follow ing diseases of the urinary passages, prostate, etc

Tuberculous pyelo nephritis should scarcely be subjected to surgical interference at its beginning In further advanced tuberculosis of the kidney, sup puration, caseous degeneration, perinephne ab scesses, etc, nephrectomy seems to give better re sults than simple incision of the kidney and removal of the caseous mass—Centralb fur Chirurgie, No 20, 1887

LARYNGEAL PHTHISIS TREATED BY LACTIC ACID AND IODOFORM —DR Luc has obtained successful results by the treatment of tuberculous ulceration of the larynx with lactic acid and iodoform, recom Thus, of the 327 operations mended by M Krause, of Berlin, and M Heryng, of Warsaw, in the case of a young woman suffering The patient was weak and thin, the least fatigue produced dyspnæa, and, aggravated the wheezing from which she constantly At night there was fever followed by pro suffered fuse perspiration The voice was completely lost The patient coughed incessantly, and the sputa con There was dulness, with tained numerous bacilli The vocal cords glottis was but slightly affected were red and swollen, and could not be completely adducted, this was apparently due to infiltration of lages, which was studded with excrescences which were especially prominent in the glottis The appe The patient complained of intense pain in the larynx when she coughed or spoke A The larynx was an inhalations were administered æsthetized by means of a r in 5 solution of hydro chlorate of cocame applied with a brush arytenoid excrescences were destroyed by galvano At the end of a fortnight the eschars came cautery At the end of a fortnight the communication away The infiltration of the mucous membrane presented was considerably reduced The membrane presented a granulating surface of healthier appearance The vocal cords were more easily brought together, and During six months the voice was much stronger the larynx was constantly painted with a 50 per Powdered 10doform cent solution of lactic acid was insufflated after each application of the acid Under this treatment the patient recovered her voice The stridor and laryngeal pain disapthe general tuberculous symptoms —L'Union Med, Feb 16 1888

INDICATIONS AND METHOD OF PERINEOPLASTY tears cause trouble Besides the troubles caused by prolapse of the vagina and retroflexions, must also be considered neuralgic symptoms, pruritus, intertrigo, and pains in the cicatrix during coition and vessel defecation, as well as nervous symptoms, often of a severe nature, and severe pains in consequence of the vaginal prolapse

Kustner compares the different operations for incomplete permeal rupture He distinguishes between mended by Professor Liebreich the double-pointed operation of Hewitt, Freund. Martin and Bischoff, and the bilateral-symmetrical operation (Simon-Hegar, Winckel) By the first the permeum is rendered most resistant He thinks that the median rupture should be operated on by the bilateral-symmetrical, the typical forked tear by the other method For complete rupture Kustner regards the double-pointed method as the only natural

In regard to the technique of the operation, the first care must be given to an antiseptic method of freshening and to an antiseptic suture material For the latter he recommends silver wire and silkworm gut, as they do not act as drains The sutures should be so placed that there is no dead space is best to embrace from the vagina about 3/3, and from the rectum about 1/3 of the depth of the recto vaginal Vaginal and rectal syringings after the operation are injurious In 36 operations he has used a 20 per cent solution of cocaine for anæsthesia, 20 times with good, and 8 times with perfect results The flaps are made with a half-dull scalpel two points are united by a continuous suture, and button sutures are placed in the vestibule, rectum, and on the perineum. The patients are kept quiet for 14 days Kustner thinks that by this method the cures should be 99 or 100 per cent -Centralbl für Chirurgie, No 25, 1887

Occlusion of Large Arteries by Flat Liga-TURES -The London correspondent of the Philadelphia Medical Times mention three cases reported to the Clinical Society of London, going to show that it is unnecessary, and inadvisable to rupture the coats of a large artery when applying a ligature in its In one case the superficial femoral artery was thus occluded for popliteal aneurism, kangarootion in the tumor was arrested immediately and did delay the normal retraction of the uterus not return bed for seventy-two days occurred after amputation at the hip-joint, for sar- [Journal, May 5, 1888

after this treatment, regarded the laryngeal lesions as coma of the femur. As it was thought that it would completely healed This method had no effect on have been fatal to the patient to have opened up the flaps to search for the bleeding vessels, and as pressure on the common femoral controlled the hæmorrhage, a clove-hitch was put around that artery return of hæmorrhage took place, and the patient O Kustner attempts to show that every old perineal made a good recovery MR PITTS, who performed rupture, even the smallest, should be healed by the operation, justified his departure from established penneoplasty, as even small cicatrices of penneal practice by asserting that the old fear of hæmorrhage at the seat of ligature was not felt by a surgeon who placed a flat ligature on the vessels and did not divide the coats, but merely closed the lumen of the

MILK JELLY AND MILK POWDER -The American stretching or tearing of old parametric adhesions by Druggist, for April, 1888, gives the following directions for preparing these milk foods

As a variation in milk diet, the following is recom-

Heat one quart of milk with one pound of sugar. and when the sugar is dissolved continue the heat, at a boiling temperature, for about ten minutes cool it well, and then add, slowly stirring, a solution of 1 ounce of gelatine in a cupful of water add the juice of three or four lemons and three wineglassfuls of wine, brandy, or other liquor Set the glasses containing the mixture in a cold place, so that the contents may gelatinize It is necessary to have the milk quite cold before the other ingredients are added, as it would otherwise curdle

Dried milk, in the form of powder, may be prepared by evaporating skimmed milk in a suitable apparatus, preferably in vacuo and under continued stirring, at a temperature of 60° to 70° C (140° to 158° F) to a syrupy consistence then mixing it with 30 to 50 per cent of its weight of finely powdered sugar, and continuing the heat, with constant stirring, between 30° and 55° C (86° and 131° F) until the product has assumed a dry, granular condition

Ergot in Subinvolution —Some very interesting observations were recently made by DR EMILE BLANC on the effect of ergot in involution of the uterus after labor A fairly large number of women who had gone through normal labor were divided into three categories Forty of them were left to Nature, forty were treated with daily hypodermic injections of Yvon's solution of ergotine (1 cc = 1 gram of ergot) during the first five days after delivery, and the remaining twelve were similarly treated for ten days Daily external measurements were then made in all the cases to ascertain the size of the uterus, and on the fifth and tenth days its internal measurement was taken by means of the uterine sound It was found that the administration of ergot during the first five or ten days failed to tendon was used, and drawn tight round the artery produce any favorable effect in hastening the process in a clove hitch without rupturing the coats, pulsa- of involution, but that, on the contrary, it seemed to Ergot is The patient, a woman, et 45, made an nevertheless an exceedingly useful agent in the treatuninterrupted and perfect recovery, but was kept in ment of secondary hæmorrhage, and its action is In the second case re- more marked the less the interval of time that has ported to the meeting, secondary hemorrhage had elapsed since the confinement -British Medical

A NEW METHOD FOR SUPPLYING THE GALVANIC les having been opened and excised, the entire CURRENT FOR MEDICAL USE -CARPENTER, of burned surface is smoothly covered with dry com-Cleveland, describes his method of procuring the presses of 20 per cent iodoform gauze, over which galvanic current for office use, as follows

The device to which we have the pleasure of calling the attention of the profession consists simply in that of using the current of the incandescent lighting |secured by a roller with a moderate degree of pres system direct from the street-wire passing the door-Thompson-Houston or Edison of the former system placed in our office, and by its infrequency keeps the part at rest means of a rheostat resistance sufficient to reduce the current to a minimum is interposed, then by the use of an ordinary switch-board, the current is increased or diminished according as resistance is cut in or out A milliampère meter is made use of whereby the current is accurately measured while the patient is in the circuit

The device is absolutely safe, as the entire voltage of the wire can be handled without the rheostat being My wire furnishes a very smooth continuous or galvanic current, with an electromotive force of Jameson, of Calcutta, writes 110 volts with a maximum strength of 110 of an ampère, equal to about eighty Leclanché cells This current is constant, does not vary in voltage, and is always ready, night or day, as the main line from which my connections are made is used for commercial purposes, and furnishes lighting for basements, This, I am informed, is the case in all large and in many small cities, so that little to give me a demonstration in taxis which I had not trouble will be met with in securing a wire with a day When a wire is once placed in our office, the task of caring for a battery of cells is at an end, tumor with his left hand, he placed his right thigh on and we have an apparatus that is at once always ready, reliable, economical, cleanly, and durable The rapid introduction of the incandescent lighting system, together with the great increase in the use of this form of light, will place within the reach of very many physicians this current of electrolytic work

The charge for the annual rental of the wire is \$10, not including the cost of putting in, which, if the main line passes the door, should not exceed \$5 device, as will be seen, does away with cells entirely, as well as the time, trouble, and expense of keeping them in order, and I venture to express, as my opinion, that we have a current superior to any that it is possible to have generated from chemical action, besides economy of room, which is not a small item in

cramped quarters A word regarding the danger from contact with the The Thompson-Houston or the electric-light wire Edison incandescent system of an electromotive force of 110 volts, and of a strength of $\frac{11}{20}$ of an ampère, is harmless, and must not be confounded with the arc system of Brush and others, as the strength of the latter is six ampères, and of course dangerous and must never be used -Medical Record, March 31, 1888

THE ANTISEPTIC METHOD OF TREATING BURNS AND SCALDS -PROF S W GROSS, of Philadelphia, suggests the following as by far the most efficient It is that practiced by Mosetig-Moorhof, and it is the chronic, obstinate eczema—Monatshefte für Prakone invariably employed by Prof Gross The vesic- tische Dermatologie, No 8, 1888

gutta-percha tissue is placed The whole is then surrounded by a thick layer of sterilized absorbent cotton between layers of corrosive gauze, which is Such a dressing rapidly relieves pain, prevents We have the wires contact of air and infection by septic pus, and by It should be allowed to remain from seven to fourteen days In burns of the second degree, one dressing suffices In the worst burns, there is relatively little suppuration, and the eschars thrown off are aseptic burns of the face, iodoform ointment (1 part iodoform, vaseline 20 parts), is used, and covered with a gutta-percha tissue mask The ointment should be removed daily — Practice, April 15, 1888

NOVEL METHOD OF APPLYING TAXIS -MR G.

A few days ago a native presented himself at the dispensary with a right large scrotal hernia, which The man was had been down for some months placed on his back, and the tumor manipulated The coverings were fairly tense Before attempting reduction I casually asked the patient if the tumor ever got smaller? He replied "Yes," and proceeded previously heard of, and which will probably be new to many readers of the Journal Lifting up the his abdomen, then crossed it over to the left side, catching the tumor between the pubes and thigh, The hernia disappeared then applying pressure with a gurgle and a snap before I had time to call the attention of the students to this novel procedure The reduction was complete -British Medical Journal, April 28, 1888

TREATMENT OF TYPHOID FEVER BY STROPHANTHUS HISPIDUS - DR POULET reports three cases of typhoid fever treated by means of strophanthus The results obtained were "magical," and he knows of no remedy which can compare with strophanthus As an antithermic in the treatment of this disease its effects are certain and persistent, and are not ac-It appears to hasten companied by any depression the period of deservescence and effectually controls the tendency to hæmorrhage He recommends that it should be given early in the attack -London Medical Recorder, April 20, 1888

CHLORATE OF CALCIUM IN ECZEMA -LIER gives the following formula for the use of chlorate of calcium in eczema

20 parts Ung zinc Talcı Ol cadın 10 Aq dest Calcu chlorat

This paste has been found especially useful in

18881

THE

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All com munications in regard to editorial work should be addressed to the Editor

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WHAT IS THE PROPER MODE OF LIMITING THE NUMBER OF MEDICAL COLLEGES AND OF MEDICAL MEN?

Perhaps on no other subject is there greater unanimity of opinion among members of the medical profession, than that we have in this country too many medical colleges from which are annually graduated a number of students largely in excess of the legitimate needs of the people, and thereby productive of all the evils of an overcrowded profession As was fully shown in the Address of the President of the American Medical Association, DR GARNETT. published in The Journal, for May 12, 1888, with a population of 60,000,000 in the United States of America, we have 89 regular medical colleges, giving instruction to 9,591 students and graduating 3,209 each year, while the total number of practitioners is equal to 1 for every 580 inhabitants

It is also shown that the increase in the number of medical colleges and medical graduates has been more rapid than the increase in population correctly attributed, chiefly to the popular desire on the part of our young men to leave the agricultural, mechanical and mercantile avocations for the professions, and the absence of all proper barriers in the form of adequate standards of preparatory general education before entering upon professional study, and of sufficient direct professional attainments to justify their entering upon the practical duties before them

attention to the subject, but concerning the appro-

priate and practicable remedies there is much greater Some who appear to believe in diversity of opinion the absolute paternity of governments would have either the National or State legislative bodies liberally endow, and at the same time arbitrarily limit the These evidently number of the medical colleges overlook the fact that all legislative bodies in this country are composed of individuals who depend upon the votes of all classes of the people for their official positions, and a majority of whom are as poorly qualified to create and maintain a just, stable and efficient system of professional schools as are the majority of the voters who elevated them to office, and who at the next election may relegate them to private life and put a disciple of Christian Science or of the faith cure in their places

A much larger number appears to have full confidence in the sovereign power of resolutions would make us think that all the evils under consideration only need discussion at the annual meeting of the American Medical Association and the adoption by that body of resolutions solemnly declaring that no more medical colleges should be organized, and that existing ones should faithfully exact of every student before admission a thorough general education, a long period of medical college study, and the highest order of medical attainments before graduation, and the work would be done We confess to having had some such faith in the efficacy of resolutions fifty years since But after seeing that great National medical organization devote annually a fair share of its time to hearing able reports, earnest discussions, and the adoption and re-adoption of resolutions covering the whole subject of medical education for the first twenty years of its existence, without apparently making any material change in either the number or curriculum of the colleges, our faith in mere resolutions began to weaken, and we aided in doing just what Dr Garnett recommends in the second "proposition" stated in his Address It was during the annual meeting of 1866, that the Association, wearied with the ever recurring discussion, referred the subject of medical education to the faculties of the schools, accompanied by an earnest recommendation that they hold a separate convention of delegates from all the medical colleges of this country during the week preceding the next annual meeting of the Association, which was to be in Cincinnati, May, The recommendation was accepted and a majority of the medical colleges then existing, accord-The evils of an overcrowded profession and their ingly sent delegates to the College Convention that chief causes are thus admitted by all who have given assembled in the Medical College of Ohio, May 3, Professor Alfred Stille, of the University of

Pennsylvania, was made President, and Professor of too positive opinions, expressed in medical debates, G C E Weber, of Cleveland, Secretary days were devoted to a faithful consideration of the important topics before them, resulting in the adoption of a most admirable scheme of medical college education, by a unanimous vote Its chief features were briefly stated by the Medical Record, of New York, as follows "First, a positive standard of prehiminary education, secondly, a longer time in which to acquire a knowledge of the various branches of medical science and practice, thirdly, a systematic and successive order of studies for the student, and lastly, a certain amount of direct clinical instruction in a public hospital as part of the senior course"

annual meeting of the Association then in session in the same city, and received the unanimous approval of that body, and may be found in full in the Trans actions, Vol 18, pp 371-384, 1867 scheme thus carefully devised and doubly recommended had been before the faculties of all the medical colleges for two years, another convention was assembled in Washington, May, 1869, which was presided over by the late Professor S D Gross, which simply endorsed fully the action of the first convention, and yet the colleges continued in the old beaten path as though a convention had never been held, and three-fourths of them are there still, as shown by the statistics admirably presented in President Garnett's address

If a new convention were assembled and another scheme devised and even unanimously recommended, who would enforce it? We have recalled these early and persistent efforts of the Association not for the purpose of claiming that they were useless because the schemes and resolutions did not enforce themselves or command obedience-for they have been of great service both in developing a correct public sentiment and correcting errors-but to remind the younger and more enthusiastic members of the profession of the ground already gone over, that they may avoid repetitions and be more readily induced to concentrate their efforts in a direction much more likely to reach practical and permanent results, as we shall endeavor to show at another time

PUERPERAL INFECTION IN THE COURTS

At a recent meeting of the Chicago Medico-Legal Society,1 a suggestive paper was read on the "Med-1co legal Aspect of Utterances made in Medical Societies " The writer selected, as his chief illustration

certain sentences from discussions of the Semmel weiss theory of puerperal fever that were held a short time ago before the Chicago Gynæcological Society He spoke with lively feeling of the legal responsibility thrown upon the practitioner by the general acceptance of this doctrine His skeptical allusion to the view of the identity of puerperal fever with puerperal infection constitute an anachronism, melancholy rather than curious or interesting, as clearly pointed out by more than one of the debaters of individual doubt and uncertainty of course need not concern us The pathology of puerperal fever in its general outlines has long been definitely settled, The action of the convention was reported to the and we can neither add to nor take from that which was authoritatively determined before the professional existence of most of the participants in the discussion just mentioned

> But the question of the legal responsibility of the attendants in the event of fatal puerperal fever, incidentally brought out in the paper, is of practical moment and worthy of more than passing notice at present informed, the exact limits of accountabil ity before the law of the obstetrician under these conditions have never been finally decided in this or Indeed, in America, suits of alleged any other land malpractice on this ground are so rare that almost no legal precedents can be regarded as established The notion of professional loyalty, after all, is very clearly defined in the medical mind with us in the It is seldom merely a sentiment In United States the majority of cases, fealty to the profession is looked on in the light of a stern duty This fact becomes more apparent in courts of law than in the "From time immemorial," an able writer sick-room remarks, "the theoretical course has been to express differences of opinion with all consideration in the presence of the colleague, and then to support him and to strengthen his position with the patient and his friends " Unhappily, this state of affairs is not always observed in the consultation chamber, as most of us can bear witness But let a brother practitioner be summoned to appear in the courts upon a charge of malpractice, and the profession is at once up in arms, the error is now apt to he in the direction of Exaggerated conceptions of the opposite extreme fidelity to the common faith, possibly, also, the apathy, if not the active hostility of the public, some times induce the conscientious practitioner to condone an unpardonable sin against the laws of the art and science of medicine

In this connection, it is of interest to note the

¹ Journal of the American Medical Association, May 5 and 12, pp 566, 599

²The Lancet, May 5, 1883, p 887

Fritsch propounds the quesperal infection in foro tion, identical with that suggested to the Medico-Legal Society He writes "A question that the judge addresses to the expert is the following operations or the omissions of the midwife stand in causal relation to the death of this puerpera?'" This question cannot be answered simply by "yes" or "no" At most, only the scientific conviction can be expressed that a causal nexus does exist the expert is never in a position to swear that except for the operations or the omissions of the midwife, the life of the puerpera would without doubt have been preserved Fatal peritonitis may occur in consequence of the rupture of a pyosalpinx during the course of an otherwise normal labor, the possibility of purely accidental infection, in which the midwife plays no part, must be admitted

The modality of the infection must be clearly established before the causal nexus can be looked upon as demonstrated. To establish the modality of infection, three data are to be supplied

- The source of the material of infection must be made clear
- 2 The omission of disinfection must be demonstrated
- 3 Any cause of death other than the puerperal disease must be eliminated

In establishing the first point it is not necessary to demonstrate infection with puerperal poison only A midwife was convicted who was suffering from an inflammation of the lachrymal sac. It was shown that contrary to the physician's orders she had attended women in labor without disinfection of her hands, and that during the confinements she had compressed the tear-sac with her fingers and immediately afterward introduced them into the parturient canal. American readers will recall the sad case of Dr. Rutter and his ozæna.

The omission of disinfection is not difficult to determine Although, of course, the painful, rigorous antisepsis of Lister may not be insisted upon. In case of alleged disinfection the fact of such preparation at the bedside must be attested by competent witnesses

The third point is elicited from the history of the case, the observation of the course of the disease, and the results of the autopsy

In the concrete case of fatal puerperal fever, therefore, when the source of infection, the omission of disinfection, and the absence of any other cause of death than puerperal fever have been demonstrated,

views of Professor Heinrich Fritsch³ respecting puerperal infection in foro Fritsch propounds the question, identical with that suggested to the Medico-Legal midwife and the death of the puerpera

> It is evident that the general behavior of the midwife can have no influence upon the question of her guilt or innocence, but it ought to be considered in relation to the degree of her punishment

> Fleischmann⁴ reports a clear case of puerperal infection by a midwife who had recently been in attendance upon a fatal case of puerperal fever. In urging the importance, in Austria, of stricter laws in the prevention of this disease, he quotes the wise provisions of Saxony—also of interest to us as germane to the subject under discussion.

The ordinance of March 28, 1885, in Saxony, is as follows

"§17 When a lying-in woman delivered by a midwife becomes the subject of puerperal fever, the midwife is not permitted to attend the sick woman any longer Neither can another midwife undertake the further care of the woman sick with puerperal fever.

"The midwife is not permitted to undertake the management of another case of labor within a period of five days, or even longer, reckoned by the district-physician from the day of her last visit to the sick woman"

Desirable, even urgently necessary as such laws certainly are, it is utopian to anticipate their enactment with us formany years to come Little by little, however, the professional mind is becoming saturated with the notion of asepsis in the practice of midwifery, and we may confidently look forward to the ultimate realization of our hopes, even though it be in the "dim and distant future" of which Mr Gladstone speaks

Meanwhile, we venture to express the conviction that Fritsch's opinion upon the medico-legal aspect of puerperal infection will meet with general commendation. Certainly, it is a model of wisdom and moderation.

ABOUT THE SIZE OF A BEAN

"A Puzzled Englishman" complains, in the *Philadelphia Medical Times*, of the loose statements in English and American medical literature as to the size of pathological objects. Such time honored statements as "as about the size of a fœtal head," or "about the size of a millet seed," he thinks we can never hope to be rid of before the millenium. On one occasion his interest in a case was kept until it was stated (by the American writer) that something was

Deutsche Medicinische Wochenschrift Ar 12 1888 p 228

⁴ Wiener Medizinische Wochenschrift No 13 19.8 p 427

"about the size of a dollar," when, masmuch as he (which case?), distilled in the presence of an acid, had seen only a gold dollar, his interest suddenly Again he was lost when he read that a tumor was "about the size of a doughnut" Doubtless most American physicians have been equally puzzled on reading that something was about the size of shilling or a half-crown

Such unscientific comparisons are far too common in medical literature We have often wondered if all the tumors removed in France are "as large as a fœtal head," and why those removed by German surgeons are uniformly either "as large as a fist," or "as large as a walnut"

How many of us have seen a millet seed, and how many have seen three fœtal heads of the same size Doughnuts, as most of us know, are not made of a What are we to infer as to the situauniform size tion of a tumor or an incision, when we read that it was a few inches or a few finger's-breadth to the left of the sternum? Is it not about time that we adopt a standard size for fœtal heads, doughnuts, walnuts, hazel-nuts, and other standards of comparison, or else cease using such standards of comparison and begin to use such as scientific men everywhere can understand Millimetres and centimetres are exact, and everyone knows what they are

Would it not be well to have some uniform color standard? Such expressions as "café-au-lait," greenish yellow, etc., are often far too indefinite, cafe au last being especially indefinite unless one be accustomed to the very best of coffee, the color of coffee and milk ranging from a very light brown or dark yellow to a dark reddish brown definite expressions are very annoying to any one making or using color-tests in chemistry

Another annoying method of indefinite expression is seen in the very loose statements of some writers concerning chemical compounds used Such vague terms as "the oxide of mercury," or "the chloride of mercury" are unpardonable in a scientific communication, more especially when a chemical reaction is Too often, also, is there an ambiguity regarding the quantity of reagents to be used Wendriner, for example, gives the following method foreign confrères may justly complain of English and for detecting antifebrin When one adds a small quantity (how much, 2 or 10 grains?) of antifebrin to normal urine, then adds caustic soda (stick or solution, and how much?) so as to render the urine alkaline, and then distils, aniline is found in the liquid that has not passed off by distillation The urine of patients taking antifebrin will not give this reaction But this is due to the fact that the drug is decom- of Australia will assemble on January 7, 1889, and The urine, in this case will rise on January 12 posed in the organism

gives a large quantity of phenol, of which traces only may be found in the urine of persons that have not taken antisebrin (Nouveaux Rèmedes) A good chemist would have no difficulty in making this test, but good chemists are rare in the medical profession

It should be the object of every writer to make his language so plain that it cannot be misunderstood In the medical profession a great deal of life-may depend upon what is written Much has been said on the subject of writing prescriptions in Latin When one is writing a prescription that is to be printed it is better to use Latin than to use a vulgar or local name of a drug Continental writers are especially prone to use local and vulgar names for preparations of plants, or else to distort the Latin name so as to make it almost unrecognizable Italian, French and Spanish literature it is very rare to find a prescription written in Latin, and it not in frequently happens that one has to look through half a dozen dictionaries or pharmacopæias in order to make an intelligent translation of one word less foreign readers have, to more or less extent, the same cause of complaint of English and American writers, though naturally we cannot see our faults so well as others can But it is a singular fact that the writers of the Romance languages use the Latin less frequently, by far, than do the writers of any other modern languages In one of Simon's prescriptions for laryngismus stridulus we find eau de tilleul called Tilleul means a lime tree, a linden to this word in a medical dictionary, we are referred to tilia, and find that the flowers of tilia Europaa "have been supposed to possess anodyne and anti spasmodic virtues" Under tilia Americana we find that "a mucilage, prepared by macerating the inner bark in cold water, has been applied in burns" Thus far we have no clue as to what eau de tilleul is Again we find a prescription calling for carbonato de htina, we can only guess that carbonate of hthum is what is wanted, for the best Spanish dictionary does not give litina

But there is certainly one thing for which our American writers they still adhere to grains, scru ples, drachms, and ounces, and to inches, and com mon and vulgar fractions

By all means let us have the proposed international pharmacopœia

THE NEXT INTERCOLONIAL MEDICAL CONGRESS

VOLUNTARY MUTILATION BY PERFORATION OF THE MEMBRANA TYMPANI

DR JUSTYN KARLINSKY reports three rare and curious cases of voluntary mutilation, observed by him in the Roumanian Army In the first case examination showed traces of traumatic lesions in the internal auditory meatus, but the functional symp toms were not justified by any lesion of the membrana tympani, nor of remainder of the ear lation was suspected, lesions of greater or less extent were found at each examination, and finally the head of a phosphorus match was found in the secretions There was no perforation of the drum head in this case In the second case there was perforation, with subacute internal otitis, caused by the introduction of a piece of unslaked lime, which was then moist-Fragments of the lime were found in the auditory canal In the third case Karlinsky found a large perforation with everted edges, which had been produced by a curved piece of iron wire The patient had been in the habit of using this wire as an earpick, and it was somewhat uncertain whether the perforation was intentional or not

EDITORIAL NOTES

EPITHELIOMA OF THE CLITORIS -It is well known that primary epithelioma of the vulva is a very rare Richet recently operated upon a case at l'Hôtel-Dieu, and subsequently presented the case at a clinic The patient was 40 years of age, had always had good health, her brothers and sisters were in good health, and her mother died at oo The patient became pregnant when 23 years old, and was delivered of a dead child after having Six months before entering the hospital she noticed a tumor on one labium majus, as she thought, but examination showed that on the lower part of the mons veneris was a tumor as large as a hen's egg, reddish, and with the well-known cauliflower arrangement of its lobes The point of origin of the tumor was really the clitoris Microscopic examination after removal of the tumor showed that it was an epithelioma

ATOMICITY AND BIOLOGICAL ACTION —M J BLAKE has recently reported to the Academie des Sciences the results of a series of experiments on "The Rela tions between the Atomicity of the Inorganic Elements and their Biological Action " He claims that monatomic elements act on the pulmonary arteries, diatomic elements on the centres of vomiting and on the voluntary and cardiac muscles, except glucinium,

elements act on the respiratory, vaso-motor, and inhibitory centres, on the cardiac ganglia, and on the pulmonary arteries, and the tetratomic elements act on the respiratory and vaso motor inhibitory centres of the cerebrum, on the spinal cord, the cardiac ganglia, and the pulmonary arteries

COCAINE IN THE DIAGNOSIS OF LARYNGEAL DIS-EASE -BAUMGARTEN, of Buda-Pest, has found a new use for cocaine, based on its action in blanching hyperæmic mucous surfaces, catarrhal surfaces, and healthy mucous membranes If the paleness does not appear after several applications, Baumgarten concludes that it is not a case of hyperæmia, but a tuberculous or syphilitic process that is to be dealt

THE "TEXAS HEALTH JOURNAL," the first number of which has been received, for July, 1888, is a new 32 page journal of public health published at Dallas, Texas, under the editorship of 'Dr J R Briggs

THE ASSOCIATION OF REGISTERED MEDICAL PRAC-TITIONERS OF SOUTH AUSTRALIA was formed on April Dr Hayward, of Adelaide, is President, and Dr A A Lendon, of Adelaide, Secretary

DR ENGELHARDT, of Halle, has been made Professor extraordinary of Gynecology in the University of Jena, in place of Kustner, who has gone to Dorpat

Dr Garre, formerly Privatdocent in Basle, is now an assistant in the surgical clinic and Docent of surgery in Tubingen

SOCIETY PROCEEDINGS.

GYNECOLOGICAL SOCIETY OF CHICAGO

Regular Meeting, March 23, 1888 THE PRESIDENT, HENRY T BYFORD, M D, IN THE

THE PRESIDENT exhibited

TWO UTERI REMOVED PER VAGINAM FOR FIBRO-SAR-COMA AND CARCINOMA RESPECTIVELY

I have here two uten which, as you see, are quite large to have been removed by the vaginal method The first, which is the size and shape of a mediumsized orange, with the cervix hanging to it like a thickened stem, is a fibro sarcoma. The entire organ is involved excepting a superficial layer of muscular tissue and peritoneum, and was ulcerated within so that the entire cavity was converted into a pus pocket The uterus was curetted for fungosities 61/2 years ago which acts on the other nerve centres The triatomic and 41/2 years ago by an eminent obstetrician, 2

years ago by a prominent homeopath (for endometritis fungosa), and by myself four months ago patient is 47 years old, and has two children, one 28 years and the other 25 years old The uterus is known to have been enlarged for 7 years The chief symptoms have been metrorrhagia, muco-purulent, slightly offensive discharges and daily colicky pains

The uterus was removed two months ago, and the patient, for the first time in years, feels perfectly well I ligated the broad ligaments in the face of great dif-(probably diseased) that it was practically inelastic, and was ligated in situ The whole vagina was contracted like that of a virgin, and was so unyielding that it was lacerated slightly before it could be dilated sufficiently for work The uterus, after having been cut loose, was delivered with great difficulty, and tore away some of the ligatures Two compression forceps finally secured the bleeding points, they were left on for twenty-four hours The 10doform tampon was removed at the end of week

The other specimen is fully the size of a man's fist, and is an adenoma of the fundus and posterior wall which has undergone cancerous degeneration patient is 55 years old, anæmic, and has had several ment, and, as a last resort, surface applications of children, the youngest of whom is 17 years old She ceased menstruating at 50 years, but soon after commenced to have a pinkish discharge, which has continued and increased ever since, and has lately been somewhat purulent and slightly offensive She suffered with uterine cramps On account of the size of the uterus I found it necessary to retrovert it in order to get at the upper portion of the broad liga-The operation was performed March 10th Although pus escaped into the vagina from a rent | needle, four millimetres in diameter, with a trocar made in the diseased posterior uterine wall by the point, insulated with hard rubber, to within three tenaculum forceps used to aid in the retroversion, the centimetres of the point, attached to the negative recovery has been the same as after normal labor The iodoform tampon was removed on the fifth day, and the first douche given

DR FRANKLIN H MARTIN read a paper entitled A REPORT OF FIFTEEN CASES OF FIBROID TUMORS OF THE UTERUS TREATED BY GALVANISM

(The report including only the year's work of

1887) From Jan 1, 1887, to Jan 1, 1888, I applied galvanism in strong, accurately measured and definitely concentrated doses in gynecological cases over 1,400 During this time I employed galvanism for times uterine fibroids 623 times in 15 cases The result was as follows

Not suitable for treatment and recommended for operation, I Benefited Symptomatically cured Absolutely cured

The author of the paper then selected and gave in detail the history and treatment of five cases, two of which were symptomatic cures, two actual cures, and the remaining case was benefited

The following is a short sketch of each case

uterus, filling the pelvis and extending nearly to Seven treatments were given by the 1st of February, umbilicus

Treatment a large number of applications of galvanism given by three different methods of procedure, extending over a period of more than two years [

Result benefited

The above is a continuation of a history, cited as Case 10, in an article read by the author before the Section of Obstetrics and Diseases of Women, at the thirty-second annual meeting of the American Medi cal Association, at St Louis, May 5, 1886

Miss C, unmarried, age 26, consulted me on ac-The right one was so much thickened count of large abdominal tumor Upon examination I found a large abdominal tumor attached, as I then thought, to the whole anterior wall of the uterus, crowding that organ away from the bladder I have since ascertained that the portion previously diagnosed as the uterus is simply the cervix, the uterus being lost in the mass of the tumor, and its canal traversing its entire depth The tumor was ovoid, smooth, and easily movable under the abdominal walls, about seven inches in its long, and six inches in its transverse diameters The growth was increasing in size rapidly

> This patient then received in turn thorough mals The of the iodine and glycerin treatments, ergotin treat galvinism were made This latter, thoroughly carried out, checked the growth, and markedly reduced the This was found, however, to be size of the tumor of a temporary nature, the growth enlarging rapidly at all times except when under treatment idea of getting more marked results, abdominal galvano-puncture was at last resorted to In September, 1886, four operations were performed in intervals of The patient was anæsthetized and a steel ten days pole of the battery, was thrust through the abdominal wall into the thickest portion of the tumor A large animal membrane electrode was placed upon the ab domen in close proximity and attached to the posi-A current of 200 milliamtive pole of the battery peres was turned on and allowed to pass for fifteen The effect of these operations was a rapid minutes The patient diminution in the size of the tumor was advised to await futher developments At the end of two months she returned, stating that the growth of the tumor had recommenced, the hæmor-

rhage being excessive Dreading the necessary risk attendant upon abdominal puncture, and having at this time success fully treated a number of cases by Dr Apostoli's method, I determined to adopt that safer and, in my opinion, much more effectual means in this case Therefore, in January, 1887, regular treatment was instituted, consisting in the introduction of an intra uterine platinum electrode to the bottom of the uterus, which was found at this time to measure eighteen and a half centimetres, or seven and a half inches in To this electrode was attached the negative pole of the battery, and the circuit was completed by depth interstitial, and subperitoneal fibroid tumor of the the use of the membraneous abdominal electrode

seven treatments were of the negative intra-uterine, the last three of the positive intra-uterine variety The highest current borne by the patient was fifty The following menstruation was free milliampères from pain, but hæmorrhage was as excessive as ever No change in tumor

February Four treatments were given in this month, all negative intra uterine, with no apparent result on tumor or amount of hemorrhage at next

menstruation No pain at menstruation

Two treatments, negative intra-uterine of ment in general health about fifty milliamperes strength The hæmorrhage at the next menstruation caused considerable exhaustion, but was accompanied with no pain, nor was

there any change in the tumor

Eight positive intra-uterine treatments were given, with a view of modifying, if possible, the excessive menstruation The patient at this time was able to tolerate without discomfort a current of as high intensity as one hundred milliampères hæmorrhage of the next menstruation was not maternally decreased, the tumor showed signs of reduction—the uterus measuring sixteen centimetres was puzzled at this time to get some means of checking the exhaustive menorrhagia. I was convinced that the current tolerated was not sufficiently strong reduced fully one-third in size to produce the desired coagulating effect upon the whole surface of the endometrium in contact with the long internal platinum electrode The current, in other words, was not concentrated enough at any one point of the electrode to produce its characteristic coagulating effect, sufficient to check hæmorrhage I, therefore, modified Dr Apostoli's method, by instituting a means of internal concentration This was accomplished by devising my flexible internal electrode, with a given active surface, which, acting only on a comparatively small portion of the endometrium at one time, would enable me in several treatments to successively apply to the whole surface of the uterus a current of sufficient concentration to accomplish the desired results The electrode adopted in this case was three millimetres in diameter, and had an active surface of four square centimetres, and the current used with this was at all times to be one hundred milliampères, passing for five minutes 1

Five positive intra-uterine treatments were given in this month with my new electrode first application the active portion of the electrode, the distal end, was introduced to the bottom of the canal, a gauge on the staff of the sound marked the distance to which the instrument entered the womb At the next treatment the gauge was placed so that the active portion of the electrode would just reach the po nt acted upon by the former treatment same principle was carried out until every portion of the canal had been operated upon by the concentrated current Five treatments were given before the next menstruation The effect was magical

The flow lasted but three days No pain

June Four treatments early in month were given with the concentration electrode as the native pole The patient at this time left city for three weeks

Thirteen treatments were given, first six

negative, seven positive Tumor decreasing in size Depth of uterus fifteen centimetres Menstruation lasts four days and is normal in quantity

August Five treatments, negative

Six treatments, four negative and September Measurement of abdomen was made two positive at this time, and over the most prominent part of tumor was thirty seven and a half inches

Six treatments, all negative Menstrua-Gain in flesh and improvetion still remains scanty

November Nine treatments, three before menstruation, and six following, all negative intra uterine

Five intra-uterine negative treat-December

Although there has been a general gain in flesh since last measurement made, the patient measures two inches less or thirty-five and a half inches Depth of uterus fourteen centimetres or five and a half inches

Thus this patient in one year has gained in flesh, in strength has normal menstruation instead of menorrhagia, and is perfectly free from pain uterus has been reduced from seven to five and a half inches in depth, and the mass of the tumor is Patient still under treatment

Case 2 —Diagnosis Myofibroma of the fundus of the uterus enlarging the whole organ

Treatment Thirty-two applications of galvanism Result Cure

Mrs D, æt 24, married two years, wife of a mechanic, no children or miscarriages, presented herself for treatment March 23, 1887 Menstruation commenced at 14, at present irregular, and for five days excessive, is accompanied with headache, and is followed by severe neuralgic pains Bowels constipated, hæmorrhoids, leucorrhœa, but not excessive, frequent and painful urination

Objective symptoms Vagina small Cervix large and patulous Uterus large with canal taking the direction parallel with the axis of the body, and measuring eleven centimetres or a trifle more than four inches in depth I was assisted by Dr Wunismark in the treatment of this patient

Thirty two applications were given this patient by means of the concentration electrodes with a current

of one hundred miliampères at each sitting

The effect of the treatment was noticed in the behavior of the first menstruation, the flow having been modified in quantity and was without the slightest The last treatment left the uterus seven centimetres in depth, normal in contour, with no evidence The patient who had previof a thickened fundus ously been anemic in appearance, is now fullblooded, in the best of health Discharged cured

Case 3 — Diagnosis Painful, bleeding fibro-

myoma in anterior wall of uterus

Treatment Galvanism—thirty-nine treatments Result Improvement in general health and reduction of the growth Menorrhagia cured and pain at menstruation relieved

Case 4 - Diagnosis Large, painful, bleeding myofibroma of the uterus filling the pelvis and abdomen.

See Medical Record, December 17 1887

One hundred and fourteen applications of galvanism by Apostoli's method

Result Symptomatically cured, pain and menorrhagia relieved, tumor diminished in size, and patient restored to health

Case 5 — Diagnosis Large, painful hæmorrhagic, interstitial and subperitoneal fibroid growth of the uterus completely filling the pelvis and lower portion of the abdomen

Treatment Thirty-eight negative intra-uterine, galvanic applications and eleven positive intrauterine by Apostoli's method

Result Tumor reduced one-third, hæmorrhage modified, pain relieved

Case 6 — Diagnosis Hæmorrhagic fibromyoma of posterior wall of fundus increasing uterus to ten centimetres in depth

Treatment Sixty-two applications of galvanism by Apostoli's method, by means of my flexible concentration electrodes

Growth absorbed, the uterus being re-Result duced in depth to seven centimetres relieved and patient completely restored to health

Case 7 — Diagnosis Large, painful hæmorrhagic myofibroma of the uterus filling pelvis and lower abdomen

Treatment Thirty applications of galvanism

Result Symptomatically cured Uterus reduced in depth from nineteen centimetres to sixteen centi-Tumor markedly reduced Menorrhagia cured and great improvement in flesh and strength accomplished

Case 8 —Diagnosis horn of the uterus increasing the depth of the uterus | lated to eight centimetres

Symptoms Excessive hæmorrhage, accompanied and followed by excruciating pain that remained for ten days following menstruation

Treatment Sixty two applications of galvanism by Apostoli's method, modified by the use of my intra uterine concentration electrodes

Result Cure

Case 9 - Diagnosis Large, interstititial, hæmorrhagic, painful fibroid growth extending to within two inches of the umbilious and causing enlargement of the uterus

Treatment Thirty-seven intra-uterine galvanisms

-twenty negative, seventeen positive Result Reduction of growth fully one-third little relief of hæmorrhage or pain up to the present

Case 10 - Diagnosis Large, subperitoneal fibroid growth, about eight inches in its long, and four in its shorter diameter, with irregular contour attached to

the entire fundus and posterior wall of a slightly en-

larged uterus Distressing pressure upon rectum, Symptoms bladder, and general complaint of heaviness in pelvis with "bearing down," and difficulty in locomo-Menstruation profuse and painful General health impaired

Treatment Thirty-five applications of galvanism

Result Symptomatic cure Case 11 - Diagnosis Interstitial, painful hæmorrhagic myo fibroma of the anterior wall and fundus of the uterus increasing its depth to eight and one half centimetres or three and one-half inches

Treatment Thirty intra uterine applications of galvanism

Result Benefited Depth of uterus reduced to two and one-half inches, general health improved, menorrhagia modified, and pain relieved

Case 12 — Diagnosis Large, hæmorrhagic, in terstitial and subserous fibroid growth of the uterus increasing the depth of the organ to fifteen centi metres or nearly six inches

Treatment Twenty-one applications of galvanism by Apostoli's method as modified by myself

General health restored, hæmorrhage checked, pain and pressure in pelvis relieved, tumor reduced one third, and depth of uterus decreased to thirteen centimetres Patient still under treatment

Case 13 - Diagnosis Myo fibroma of the anterior portion of the neck and body of the uterus, three inches in diameter Uterus not materially changed Hæmorrhage in depth, three and one quarter inches

> Menstruation profuse, but not ex Symptoms cessive, much pain during latter part of flow Fre

quent and difficult urination

Treatment Sixty-one applications of intra utenne galvano-negative treatment by my modification of

Apostoli's method Result Cure

Case 14 — This case was found, after a few treat ments had been given, not suitable for this method of procedure A submucous mass from the interior of the fundus of the womb gradually filled the ute Myofibroma of the right rine cavity, and when I discovered it was peduncu I advised her to return to her home and have it removed by a surgical operation The operation was successfully accomplished by Prof Mann, of Buffalo, N Y

Case 15 - Diagnosis myofibroma of fundus and posterior portion of uterus, accompanied with men

Treatment twenty-three intra-uterine applications of galvanism by Apostoli's method as modified by me

Result cure The point has been well dis DR P S HAYES It occurs cussed and there can be little further said to me, however, that there may be a reason why the positive electrode used in the uterus is more hæmo static than the negative, and that is on account of the cicatrix which follows the use of the positive electrode being more prone to contract, the cicatrix following the negative being like the cicatrix of a From my own experience burn with caustic alkali in the use of electrolysis I find frequently that, at the time of operating, there is a slight hæmorrhage, or at least an oozing of bloody serum, more likely to fol low the use of the positive than the negative pole, especially if any other than a platinum electrode is The destruction of tissue around the positive pole is not nearly as great as that around the nega tive, the oxygen is separated around the positive pole and the acids are liberated, and I find the eschar which follows essentially the one produced by the action of the strong mineral acids on albuminous tis On the other hand, if the negative pole is used,

we find that the destruction of tissue extends probably twice as far from the electrode The appear ance is entirely different, that from the negative pole looking very much as though it had been frozen, and the scar tissue which results from the use of the negative pole does not contract as firmly as does that which follows the positive, and it seems to me that this can be explained to a large extent by the chemical action which takes place along the electrodes There are two, and possibly three factors present in this method of using electricity there is the physical effect, due of course to the liberation of the gases around the electrodes, there is the chemical effect due to the electrolysis or separation of the salts of the body into the acids at one pole and the alkalies at the other, and then there is the physiological effect, which we do not understand as well as we do the chemical and physical effects amount of chemical action which takes place around the pole that is in the uterus, an equivalent amount of chemical action takes place under the electrode you will find an irritation of the skin, and you may possibly get a blister within the circumference of the electrode, so that on the second or third day you will find that it is difficult to apply the electrode where it was first applied That the electricity, as it passes through the tumor, affects the cell life, is a question yet to be proven, and I think the determination of the matter can be considered almost entirely due to the peculiar chemical action which takes place around the electrode

Dr E J Doering I would like Dr Martin to make an explanation about the strength of the cur-Tent which can be used There seems to be considerable difference of opinion among gentlemen in

various parts of the country

Dr Franklin H Martin The question is a difficult one to answer in the time I have at my disposal, but I would say briefly that, with the means of concentration that I have adopted in my intrauterine flexible electrodes, a current of from 50 to 100 milliampères is all that is necessary in order to obtain all the benefits of this treatment Without these electrodes, however, and by the original Apostoli method, I have employed currents ranging from 100 to 1,000 milliamperes, and this without any det-Timental effects

(To be concluded)

GNYECOLOGICAL SOCIETY OF BOSTON

HERBERT J HARRIMAN, M D, SECRETARY Stated Meeting, February 9, 1888 THE PRESIDENT H C WHITE, M D, IN THE CHAIR DR C W Stevens read a paper on

CORROSIVE SUBLIMATE INTERNALLY IN PUERPERAL AND OTHER SEPTIC EMIAS

(See page 615, The Journal, of May 19)

ence in the use of corrosive sublimate in the way recommended by Dr Stevens His usual course was to remove all clots and placenta as thoroughly as possible, using the curette if necessary in cases of Quinine, antifebrin, antipyrin and similar abortion agents were used as indicated Dr Clark has been shy of intra-uterine injections of late years, believing that their use is unnecessary and dangerous a local application he uses tr of iodine, upon a cotton-wrapped applicator

DR A E McDonald had never tried the mercuric bichloride in puerperal septicæmia, but had used it with great satisfaction in the treatment of diphtheria, giving doses of $\frac{1}{32}$ of a grain of the drug until characteristic diarrhœa appears With this

treatment is combined the use of quinine

He had, however, used iod salicylat in puerperal Whatever be the septicæmia with apparent benefit He usually orders 31 of the drug in an 33 of the vehicle and directs that 31 be given every three or four hours

DR SAMUEL N NELSON said The use of ant septics that is placed on the abdomen, and almost invariably in puerperal fever seem to me a necessity, but I think that the chief advantage to be derived is from their employment locally, and when used systematically they have little if any perceptible effect. When they do have any effect I cannot believe it due to their This is particularly the antiseptic qualities as such case when the question is concerning corrosive sublimate, of which the dose compatible with safety is very minute, particularly in proportion to the weight of the body of an adult Note the dose advocated by the reader, viz $\frac{1}{96}$ of a grain at the beginning every three hours, which may be increased to $\frac{1}{48}$ of a Dr Ernst is quoted as authority for the statement that corrosive sublimate in the proportion of 1 to 10,000 will restrain the growth of microorganisms, and this is cited as the reason for giving the drug in the above mentioned dose Does it fulfill the conditions? With the larger dose mentioned $(\frac{1}{4R} \text{ grain every three hours}) \text{ only } \frac{1}{6} \text{ grain is}$ taken in twenty four hours, and if for convenience we estimate the average weight of an adult at 100 lbs or 700,000 grains in round numbers (which is below the actual figure) we find that the proportion of medicine taken in the whole twenty-four hours to the weight of the body is 1 to 4,200,000, which is only $\frac{1}{420}$ part of the proportion cited as authority for the dose In point of fact, Dr Ernst falls far short of the mark, when he says that a solution of corrosive sublimate 1 to 10,000 restrains the growth of microörganisms Many years ago Koch and Sternberg showed that the solution 1 to 10,000 would kill them when exposed for two hours at least four years ago I reported to this society a series of experiments in which I showed that the solution 1 to 10,000 killed the germs in five seconds in every one of several experiments And although I have not investigated further, I believe that a much weaker solution will kill them in this exceedingly short time Moreover, considerable larger doses of corrosive sublimate than has been recommended can be borne Pepper recommends, if I remember the figures correctly, doses of 1/2 to 1/6 of a grain every DR A P CLARK said that he had had no expend two hours for children of about five years old sick

with diphtheria, and used thus, he considered it almost a specific with a severe attack of diphtheria, I took a grain of in what way it is eliminated When corros sublim. corrosive sublimate every day for a week in addition to frequent gargling with a 1 to 1,000 solution—and I am alive to tell the fact When taking a grain a day, I took only about one to one millionth part of my own weight, and even this proportion is much too small to think that good effects can come from the use of the drug on account of its antiseptic properties as such

The advantages of antisepsis locally, however, should not be over-looked, and here I should place He who has made corrosive sublimate at the head an autopsy after death from puerperal fever, and seen the whole interior of the large non involuted judge of the danger The most virulent bacteria are uterus, a stinking slough will appreciate the need All that can be easily removed of action here should be removed, and frequent irrigations of corrosive sublimate solution i to 1,000 should be em-How much better, however, an antiseptic delivery, and hence a normal recovery!

If corrosive sublimate has any effect in shortening or curing the disease when taken into the system, I believe that we must find some other explanation the corrosive chloride internally is of no use in sep than its antiseptic properties, and if repeated trials show good results it is most certainly a valuable remedy, and I hope to hear further reports concern-

ing it DR H C WHITE said that in the computation given by Dr Nelson, showing the relative weight of the antiseptic compared with the body weight, the solid tissues should not be considered, as they are not invaded Only the fluid constituents of the body, such as the blood or serum, should be reckoned

internally in such cases, and hoped that good might opposed to the use of corros sublim in any manner come from such use The routine use of intra-uterine injections by the average physician is a source of In the puerpedanger and should be discouraged ral state nature provides proper treatment, and the woman ought to be left alone as regards any inter-Heat is the best disference with the genital tract infectant, and should be applied to the hands and all cloths and garments used about the patient. Dr White has used one drug more than any other in the diseases in which septic conditions may arise, namely This drug has always answered all sulphurous acid The failure of the remedy reasonable expectations in other hands may be due to its poor quality preparation must be fresh, as otherwise the gas will escape and the medicine become inert and valueless But few druggists can be relied on to provide always a fresh and efficient preparation

DR GEO W NASH, a guest of the Society, said that at the Rotunda Hospital, Dublin, the practice in cases of puerperal septicæmia was to thoroughly wash the uterus with a 1-20 solution of acid carbol He had never seen hydrarg chlorid used there in

W Cushing said he had not arrived in such cases season to hear the paper read and could only judge it from its title He was not disposed to assign much value to corros sublim used as suggested It is im-

possible to tell, in the present state of our knowledge, In the spring of 1884, when ill in just what form the germicide enters the blood and is mixed with blood in a test-tube it forms at once an The only way, however, to albuminate of mercury settle the question as to the efficacy of the drug in septic troubles, will be to pile up cases and thus ar Dr Cushing's practice in these rive at the facts cases was to thoroughly scrape out the uterus under antiseptic precautions and then to thoroughly wash The disorder is undoubtedly due to bacterial infection, and in all the cases dying in Vienna of puerperal infection during his stay there was found the same forms of bacteria which we find in wound A bad smell is no criterion by which to infection Our hope in these cases of puerperal in odorless fection is in being able to remove all the offending When the infection has spread beyond the matter uterus and thrombi have formed in the veins of the broad ligament, little can be anticipated from any Hydrarg bichlorid may be given kind of treatment hypodermically with safety

DR F D BURT said that he had the feeling that The usual practice has been described by tıcæmıa Dr Cushing, but the greatest difficulty lay in removing all the offending matter In accomplishing this object the use of the swab is much more efficient than intra-uterine injections as ordinarily used The simple current of the solution has but little detergent power over decomposing shreds of tissue which may By the thorough use of a swab, howbe attached ever, these offending tissues may be more success-

fully removed DR W Symington Brown said that he was deadly It is the most easily decomposed and most dangerous of any of the mercurial preparations changes which it undergoes when entering the blood prevents its reaching the germs of disease ever good effect results from its use probably arises Dr Brown believed that from its alkaloid action washing out the uterus was not the best and most efficient way of cleansing that cavity, but that the use of the swab was much more effective ways used tr 10dinii as a local application on the From the use of corros sublim forty or fifty cases of dysentery have been reported, and this fact shows its highly dangerous character

DR C W STEVENS, in closing the discussion, said that in puerperal septicæmia there was a natural tend ency to diarrhoea, but that the use of the corrosive chloride in small doses did not increase the trouble He had never kilogrammed his patients to find the exact proportion between the dose and body weight, but had formed his favorable opinion of the drug entirely from clinical results This use of the drug is a resurrection of a former mode of practice, and may prove to be of value in

septic troubles

MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA

Stated Meeting, February 8, 1888 THE PRESIDENT, THOMAS C SMITH, M D, IN THE CHAIR

DR ROBERT T EDES read a paper on IDIOPATHIC ANÆMIA

(See page 648)

DR REYBURN'S experience in this field had been very limited, as he had only had one case in the past The woman having been treated by a number of physicians without any benefit, finally fell into his hands. She was emaciated to an extreme degree, and had palpitation. He could not trace the cause As a last resort he tried Mitchell's method of forced feeding She was confined to bed, was given six pints of milk daily, massage was applied, she recovered This was a well-marked case would ask Dr Edes as to the treatment in his case

DR EDES had not dwelt much upon treatment A great majority never recover He depended, however, upon arsenic and feeding Nearly all the cases which have recovered have done so under arsenic In his cases there was not forced, but rectal feeding One of the first things to suggest itself in the treatment was, of course, transfusion, but expemence had shown this to be of very little value in the treatment of idiopathic anæmia, and often worse than useless

FOREIGN CORRESPONDENCE

LETTER FROM PARIS

(FROM OUR OWN CORRESPONDENT)

Microbes of Epidemic Dysentery—Smokers' Vertigo -Antipyrin in Labor - Glycerin as a Purgative

At a recent meeting of the Academy of Medicine, M Cornil, on behalf of MM Chantemesse and Fernand Vidal, read a note on the microbes of epidemic He added, as a conclusion, that the presence of the bacillus discovered by these observers in deep organs of a man having succumbed to an acute attack of dysentery, the observation in the stools of five dysenteric patients, its absence in the stools of men in health, the lesions which, it gives birth to in the intestine and the viscera of guinea pigs experimented on, plead in favor of its specificity M Le Roy de Mericourt, an old naval surgeon, observed that two medical men of the navy described, ten years ago, the microbes of the diarrhea of Cochin-China, considering them the pathogenic agents of this malady, but their discovery has not proved of any consequence in a therapeutical point of view regards epidemic dysentery the speaker observed that he could with difficulty admit its microbian origin, dysentery not being contagious, as was demon-

ships, or at the Maritime Hospital of Brest, where he had numbers of cases of dysentery under his care M Rochard, another old naval surgeon, concurred with M Le Roy de Méricourt on the non contagiousness of dysentery, of which he had observed several cases having divers degrees of gravity He thinks that the microbian or non-microbian origin of this malady is not demonstrated, at least clinically this M Cornil made the remark that the presence or absence of microbes does not necessarily imply the transmissible or non-transmissible character of a malady For instance, he said that leprosy is distinctly a microbian malady, and yet its contagious nature is nothing less than demonstrated For M Cornil, all the chapters of general pathology relative to contagion, infection, endemicity, epidemicity, require to be rewritten with new elements, and in keeping with the discoveries of modern science Roy de Méricourt expressed satisfaction at having heard M Cornil declare that all microbian maladies are not necessarily contagious This declaration, he said, was necessary if it were only to appease the public mind, which is imbued with the idea that contagiousness is inseparable from the microbian nature of a malady Thus, for instance, there are many persons who would not have their children vaccinated with human vaccine lymph for fear of tuberculosis being transmitted to them M Cornil responded that the microbe of tuberculosis had never been met with in vaccinal virus, there is therefore nothing to be feared in this respect, though this should not prevent every precaution of prudence being taken in the choice of vaccine subjects

At a previous meeting of the Academy, Dr Decaisne read a note entitled "The Vertigo of Smok-The author formulated the following conclusions based upon observations of 63 inveterate smokers presenting different degrees of vertigo more or less frequent, more or less accentuated I Of the 63 subjects of from 29 to 66 years of age, 49 were aged from 50 to 66 years 2 More than half presented besides, other digestive troubles, alternations of constipation and diarrhea, dyspnea, exaggerated urinary secretion and sweats more or less abundant, insomnia, and palpitations One-third had intermissions of the pulse and granulous angina, some of them the intestinal parietes, the mesenteric glands and the had emphysema, aphthæ, amblyopia, spitting of One hundred and thirty seven cases referred blood to young smokers in whom the vertigo was produced almost always in the morning 4. The occurrence of vertigo coincided, in one third of the cases, with the suppression of profuse sweats and a marked diminution of the urinary secretion This phenomenon may be easily interpreted by all physiologists Sometimes the symptoms of the vertigo of smokers have been confounded with that of cerebral congestion and even of diseases of the heart This error of diagnosis may lead to the most serious consequences, and the author knows at least of one case that came under his notice who died after having been copiously bled for vertigo supposed to have been caused by cerebral congestion, whereas the real cause of death strated by observations that he had occasion to make, was attributable to excessive tobacco smoking. The whether in his long voyages on board men-of-war author explains that in nicotic intoxication there is at

thor's own conclusions Whether this be due to want of care in editing or too great modesty on the author's part, it impairs the value of the work for reference Those who especially desire to refer to the fullest and latest collection of statistics on this subject will nevertheless find it in Prof Stimson's work, which is quite likely, therefore, to become a standard authority

SECOND SERIES OF PHOTOGRAPHIC ILLUSTRATIONS OF SKIN DISEASES A complete work on Derma-An Atlas and Text-book combined GEO H FOY

The first two parts of this work have already been noticed in The Journal The standard of excellence is maintained fully in the third and fourth now at hand We cannot speak too highly of the faithfulness of the illustrations The coloring of these plates is much more correct and lifelike than of any similar It must be remembered that collection seen by us this is not simply a new edition but an enlargement of the old edition, which makes it a complete textbook as well as atlas

A PRACTICAL TREATISE ON DISEASES OF THE Skin, for the Use of Students and Practitioners Second Thoroughly Revised and Enlarged JAMES NEVINS HIDE, AM, MD Pages 676 Philadelphia Lea Bros & Co

We are much pleased to see a second edition of Dr Hyde's well-known and most excellent book Changes have been made on called for so soon almost every page, much has been rewritten and new chapters have been added The nomenclature has been made to conform to that adopted by the American Dermatological Association The illustrations Those depicting morbid histology are numerous Two colored illustraare accurate and well chosen tions of unusually rare diseases have been introduced

MISCELLANEOUS.

THE ROCKY MOUNTAIN MEDICAL ASSOCIATION held its seventeenth annual meeting in the parlor of the Burnett House, Cincinnati, on Wednesday evening, May 9, 1885 Dr N S Davis was called to the chan in the absence of the President The following members were in attendance Drs Davis, Toner, Wise, Donahue, Findlay, Atkinson, Elmer, Stanton, Hibberd, Pollock, Asdale and Morris Honorary members Mrs Davis, Mrs McMeans, Mrs Hibberd and Mrs Donahue The proceed ings of the last meeting and the memorial record were read by the Secretary Two deaths were reported during the past year, viz Dr D W Stormont, of Topeka, Kansas, and Dr A E

Heighway, of Cincinnati, both born in 1820
Dr William Elmer, of Bridgeton, New Jersey, was then elected President, and Dr John Morris, of Baltimore, Secretary and Treasurer On motion of Dr Davis a resolution was tary and Treasurer passed requesting the Secretary to send a card to all the mem bers, so as to secure accurate knowledge as to the number of survivors of the Association The meeting adjourned to meet John Morris, M D at Newport, June, 1889

THE OMAHA MEDICAL CLUB, says the Omaha Clinic, is an association of physicians, and is of a most peculiar type It is without any organization whatever, it has no officers, not even a chairman, and is governed without any rules. Any regular physician in good standing is entitled to admission to its meet-Any regular ings, and all such are cordially invited to be present and take part in the work of the club There is no expense connected

The regular meetings of the club are held on the first with it and third Wednesday evenings of each month, at the office of the physician whose duty it is to read a paper each person attending is purely voluntary. The utmost free dom of action prevails as regards work to be performed, the club being governed solely by the ru'es of polite society which prevails in the drawing room

So far it has been a pronounced success, and the work very satisfactory, since only earnest workers and sincere students of medicine are in attendance

THE WATER SUPPLY OF GROWING CITIES is the subject for which a prize is offered for International competition in 1893 It is one of a series of annual prizes offered by the King of the Belgians, the value of which is 25,000 francs for each award The essays of those desiring to compete must be addressed to the Minister of Agriculture, Brussels, before January 1, 1893

NEW BOOKS RECEIVED

Report of the Health Officer of the District of Columbia, 1887 Physician's Leisure Library Pleurisy and Pneumonia By Garland

The Infectious Diseases By Karl Liebermeister Translated by E P Hurd Detroit Geo L Davis

A Manual of the Minor Gynecological Operations By J Hal liday Croom, M D First American Edition, by L S Mc Murtry, M.D., A.M. Illustrated 1888 Philadelphia Ricords, McMullin & Co

Intubation of the Laryn By F E Washam, M D Chica go Charles Lucas

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY FROM MAY 12, 1888, TO

DEPARTMENT O SANDAMAY 18 1888

Par II, S O 104, A G O, May 5, is amended by par 4, S O 108, A G O, May 10, 1888 Major Chas R Green leaf, Surgeon, Major Robert M O'Reilly, Surgeon, Capt Inc. O Stunner Asst Surgeon, are detailed as a board of Jno O Skinner, Asst Surgeon, are detailed as a board of medical officers to assemble at the U.S. Military Academy, West Point, N Y, on June 1, 1888, to examine into the physical qualifications of the candidates for admission to the academy, and, in connection with the superintendent of the academy and commandant of cadets, the members of the graduating class

Capt D M Appel, Asst Surgeon, will be relieved from duty at Ft Davis upon the arrival of Capt J V Lauderdak, Asst Surgeon, and proceed to Ft Hancock, and report to the commanding officer of that post for duty S O 49, Dept Texas, May 5, 1888, and S O 50, Dept Texas, May

9, 1888

First Lieut Guy L Edie, Asst Surgeon, will proceed, not later than the 25th inst, to Ft Concho, and report to command ing officer Eighth Cavalry for duty as medical officer, in compliance with par 13, S O 99 c s, Hdqrs of the Army S O 49, Dept Texas, May 5, 1888, and S O 50, Dept Tex, May 9, 1868

First Lieut F T Walker, Asst Surgeon, will be relieved from duty at Ft Ringgold, and proceed with Company D, Six teenth Infantry, to San Antonio, he will then report for duty to common the common than Post of San Antonio to commanding officer Post of San Antonio S O 49, Dept

Texas, May 5, 1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS
OF THE U S NAVY, DURING THE WEEK ENDING
MAY 19 1888
Surgeon Edward Kershner, detached from U S S "Pensaco

la," and wait orders
Asst Surgeon J S Sayre, detached from U S S "Pensacola,"

Surgeon W H Jones, detached from Navy Yard, League Is land, and to "Pensacola"

Surgeon G H Cooke, ordered to the Navy Yard, League Island P A Surgeon Millard H Crawford, ordered to the "Vandalia"

Asst Surgeon F W F Wieber, detached from "Vandalia"

Asst Surgeon E P Stone, from Naval Hospital, New York, and to the "Pensacola"

P A Surgeon C F V V

A Surgeon G E H Harmon, commissioned a Surgeon May 12

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

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No 22

THE ADDRESS IN MEDICINE.

Delivered at the Thirty Ninth Annual Meeting of the Ameri can Medical Association, Cincinnati, May 9, 1888

BY ROBERTS BARTHOLOW, M D . LL D . PROFESSOR OF MATERIA MEDICA GENERAL THERAPEUTICS AND HY GIENE IN THE JEFFERSON MEDICAL COLLEGE OF PHILA-DELPHIA ETC

Mr President and Gentlemen The last Internanational Medical Congress, in some respects, was the most important of the series In the discussion of those great topics included within the domain of State or preventive medicine, matters of high interest for all educated people, of the greatest importance to the well being of society, and that exhibit in the clearest manner the disinterested benevolence of the medical profession, were fully considered an unprejudiced observer it would seem that matters of such high interest would receive respectful attention, and such practical benevolence be greatfully appreciated by the great organs of public opinionthe daily newspapers it must be admitted that it did not prove to be so

It is a remarkable fact that the proceedings of the Congress were revealed to the universal public in a manner that is not too strongly characterized by the word flippant In explanation of this phenomenon it was said that such is the usual attitude of the press toward the medical profession, that these representatives of current opinion do not take the profession "seriously," but rather view the men, and the work of the Congress, as a comedy performance, to be enticised and laughed over on the same lines the great metropolitan dailies stood alone in this attitude, it were the less surprising, but, unfortunately, others participate No thoughtful observer can have throughout the country toward all medical organiza-The same position is assumed by a certain "medico," and the art and science as a profession or Barnum's wooly-horse, or Chang the Chinese giant

ing attorney, who happened to be present, and he also chided them in a manner befitting a pedagogue to his naughty boys, rather than members of a scientific body

The causes of this state of things are not far to seek Every one here present must be familiar with I purpose only to consider those which have to do with the therapeutic art-the most important

Not a little of the ignorance, the crudities, the vague theories of the eighteenth century still linger in the nineteenth century near its close. It is yet understood by many that the therapeutic art is based on some ism or dogma. "Allopath" and "homepath" are still bandied about as having vital power, when they were long since relegated to the lumberroom of the past by modern science We yet hear of "new school" and "old school," as if notions brought out near the close of the last century, compounded of the vagaries of Hahnemann and the mysticism of Mesmer, could still continue guides to The contentions of so called "schools," the noisy demonstrations of the Thompsonians, and electrics, and physio-medicals, the rapid water-cure. and the innumerable special cures, have produced in the popular mind a distrust of all systems

The cry of "new school" has proved the most sympathetic, but the attractive sugar pellets, and tasteless liquids, carry with them their own destruction, for, in the deeper consciousness of men, lies the fatal objection that great results are not to be accomplished by such slender means Hence, left to its own course, homoeopathy has practically died out on the Continent On this side of the Ocean it still maintains a certain influence, because of social conditions and prejudices that are only possible in free communities

The success of such wretched puerilities, such failed to see that such is the disposition of the press manities as the homospathic practice consists of, does more to lower the position of the medical profession than any other cause The false statistics element in American society that delights to be con-sidered "cultured" By these, a physician is a ing unchallenged, are at this moment doing an almost incredible amount of mischief Two years ago business, is no higher esteemed than such shows as a pamphlet was very widely distributed throughout the West, as a trade document, containing much Recently at a meeting of a medical jurisprudence falsehood in the way of statements of pretended society, several members, scientific men, questioned scientific truths, and fictitious statistics, that placed the accuracy of some statements made by the author legitimate medicine in a false position, and disof a paper who is connected officially with the Credited its practice to a most serious extent. This pamphlet was issued by a St. Louis homocopathic official, they were sharply criticised by the prosecut- pharmacy, and was written by a Dr Somers, who

had been a professor in the faculty of Iowa University, and it had, therefore, an air of authority that demands materially contributed to its success. tırade agaınst allopathy—ıts past errors, and its present uncertainties-occupied much of this pamphlet, but its really effective part consisted in statistics made up out of the whole cloth These statistics, it is asserted, were obtained from official publications, and gave the results in numbers of the comparative success of homeopathy and allopathy, in the cities of Boston, New York, Philadelphia, and others was thus shown by pretended official figures, that homeopathic practice is invariably from 30 to 50 per cent more successful than allopathic

What answer can be made to such statements, apparently supported by official figures? I am informed by a physician of the best reputation, living in a large city of the West, that this pamphlet was sent to every house-holder in a considerable town, that legitimate practice was in a short time completely destroyed, and every regular physician reduced to extremity. We need not be surprised How could any physician answer those immutable figures? Those who suffer from the effects of such misrepresentations are clear that an adequate answer should be made, although the profession is averse to medical polemics—for, wherever this lying paper has gone, the regular practitioner is silenced the official figures—what will you do about it? remains unanswered, and is yet doing its work efficiently as a trade circular

When this pamphlet was brought to my notice, I communicated with the official authorities to learn about the source and probable value of these pretended official figures I expected to discover manipulations which made the figures tell the story that suited the purposes of the St Louis drug house, but I was amazed to hear that no statistics of this active principles, for by them we have minuteness of kind exist at all, that a return showing the effect of a system of practice on the mortality rates had never been made, and therefore never published, and hence present time, we must pay deference to taste, and se the figures given in the pamphlet were made out and I ascertained on further inquiry that though every aid were given, it would be a matter of infinite difficulty to get such figures, and to assure their accuracy would require an amount of time and trouble past, in which the point of departure is the exclusive - that hardly any one could give to such a task

We cannot but regret that such misrepresentations No other argument were should go unexposed needed to demonstrate the falseness of a system, maintained by frauds of such a shameless character, but meanwhile the advocates of the system profit by fully elaborated, but I do not find that there is any the forbearance of the medical profession in the at- truth which can be considered new, except the form titude of maintaining its dignity

The one remedy for existing ills—and to put the medical profession in its proper attitude as a scientific body-is to improve the art How can the application of remedial agents be rendered more therefore, little more than a name which it was hoped,

certain? As a teacher of therapeutics for many years, I profession in respect to the powers of medicines are ministration of active principles is necessary, is obvi do not have that familiarity with the physiological tion due to climate, character of season, mode of

powers of drugs which the effective use of remedies It thus happens that the highest precision The usual is not attained Vague notions take the place of scientific accuracy when such has been the progress in this department, that a considerable degree of certainty should be the rule

It must be admitted that the acquisition of thera peutical skill has been greatly hampered by the com plexity of the materials The barnacles of a century have been accumulating on the framework, and the new knowledge has been thrust into the crevices of old notions until all is made to appear confused and

The subject should be divested of its superfluities The list of preparations given in the U S Pharmacopara—our only official authority—can be greatly curtailed with advantage Remedies long in use and of comparatively little value are overloaded with formulæ The preparations of iron given by the Pharmacopæia are thirty eight in number, of mer cury twenty-five, of rhubarb fifteen, of aloes as One-third of these could perform the duty of The botanical and pharmaceutical details are all such that to master them would require the whole of the time given to the medical studies If obtained, such knowledge is of small value to physicians, therefore it should be turned over to the pharmacist, to whom it properly belongs

It needs no argument to show that to accomplish the best results, not only the remedy in its crude form, but its constituents must be accurately known Whenever an active principle is not available, the most concentrated preparations should be prescribed In an especial degree is it necessary to have com plete information regarding the dosage and actions Let me emphasize in the most positive of alkaloids manner the importance of using the alkaloids and dose, singleness of action, and precision of effect

In these "flabby days," as Mr Froude entitles the cure the administration of a remedy which in a crude form may be rejected

Under the name "dosimetrique" a system of thera peutics has been brought forward within a few years use of the alkaloids and active principles made into I will not enter into the theoretical nogranules tions on which Burggraeve bases his system Dr von Penterghem has done me the honor to send me his volume, which contains the dosimetric system Furthermore, their work is of the medicament Dosimetric practitioners are imperfectly superficial acquainted with the physiological action of remedies This so called system is, —their point of departure there is reason to believe, might play the role once the fortune of homoepathy

That to attain to any degree of accuracy the 2d

manipulation, and other accidents A notable illustration of this truth is afforded us in the composition It contains two active principles one Pilocarpine constant in form and powers, an-The proportion of jaborine other Jaborine variable found in different lots of the drug pilocarpus varies one from another, and the process of separating the alkaloid also affects the quantity. Now as jaborine is an analogue of atropine, and therefore opposed in the entirety of its actions to pilocarpine, it is clear that the crude drug must be uncertain in its effects and one specimen vary from another in the most radical manner In this way only can be explained the conflicts of observation first noted, for the alkaloid pilocarpine acts in a uniform manner, and must continue to do so To obtain the desired results it is clear that the alkaloid and not the crude drug must be used

There are many illustrations of the same truth for example, in the actions of cinchona and quinine, opium and morphine, nux vomica and strychnine, etc

There can be but one basis for the administration of That must be a true, exact, and intimate knowledge of the manner in which they act on the tissues and organs of the body This knowledge, as forces it now stands only in part developed, is large, somewhat complicated, but quite available, and will richly compensate all who will master its spirit and form

It is within a comparatively short period that the study of the physiological action of remedies has been the basis of scientific therapeutics The opening of the present century marked the very beginning of this movement, which, even now, is far from We owe to the genius of Magendie, seconded by the labors of Bichat, the fundamental principles, and to Bernard their practical execution It is a curious fact, that when the foundations of physiological therapeutics were being laid, Hahnemann was developing his notion of the spiritual essence in medicines under the tuition of Mesmer, who, his magnetic force School Medicine," we have this eighteenth century ment of the science mysticism unchanged and unchanging, whilst legitimate medicine has been continuously developing, under the inspiration of all forms of physical science To admit that homeopathy had any influence in the of physical truth shaping of scientific medicine, is to admit its right to a hearing It had nothing to do with the new forms the circulation scientific knowledge was taking, especially not with Physiological therapeutics being the form composition the art of cure must, of necessity, assume, is there practical use? Of this there can be no doubt law of antagonism of action is such a guide within and the activity of the function of nutrition its proper range By this is meant such a balancing of effects that the morbid action ceases illustration of the action, and of its consequences, diminishing congestion the vessels, and of fibroid kidney by the use of nitro- the tissues Here tissue changes are held in check, the morbid action, or that maintain a balance of action in electrolytic decomposition must be equally effects until the lesions no longer exist

Besides the antagonism that is direct, there is an That a remedy which has antagonism that is similar a selective action on any tissue will have a curative action in the diseases of that tissue, is a proposition that is generally true If the therapeutic action is similar to the morbid, the curative effect is in inverse proportion to the closeness of the correspondence

If there be similarity of action merely, the curative effect is trivial or is entirely wanting. To illus-Pilocarpus is the most powerful sudorific we possess, but it is the least effective agent in the arrest of sweating On the other hand, atropine is the most effective, and this, as all the world knows, dries the skin by stopping the action of the sudoriparous glands If we place together the physiological agents now used to arrest sweating, we find that they are powerful in proportion to the degree in which they lessen the functional activity of the sweat-glands Thus we have atropine, picrotoxin, strychnine and Such a fact is conclusive against the pilocarpine theory and practice of homeopathy

Next to the action of physiological antagonism as a means of securing accuracy in our therapeutical methods, must be placed the use of the physical The important one, and that only to which

I can allude, is electricity

Infinite harm has been done to this subject by spe-It is not yet divorced from charlatanry of the worst sort—the pseudo-scientific The most senous embarrassment in assigning electricity to its rightful place in our materia medica, is the complexity of the subject Unfortunately, no man can use the agent rightly who is unacquainted with its physics and physiology Within the sphere of its curative action, it is simply unrivalled That this strong statement is not universally accepted is due to the fact that this force is not sufficiently studied, and not appreciated because its powers are not utilized Professional skepticism, added to the ill-repute which comes of inveterate quackery, acts in turn on the at that time, was firing the heart of female Paris with minds of patients, and thus prejudice is engendered To-day, under the title of "New that constantly interferes with the proper develop-

> Notwithstanding the skepticism, or the positive unbelief, there are two facts that cannot be explained away or denied, for they rest on the immutable basis

The first fact is the power of galvanism to affect

The second fact is electrolysis, or electrolytic de-

Late researches have shown that a moderate galany law or rule which may serve as a guide to vanic current increases the vermicular action of the The vessels and thus increases the blood supply to a part, other hand, strong currents tetanize the vessels and A capital thus lessen the amount of blood passing to a part, The same laws hold good is afforded us in the use of amyl nitrite in the relief of the faradic current if the parts to be acted on are of that form of angina pectoris with high tension of so situated that the electrodes come in contact with

As respects electrolysis, skepticism has no ground and ultimately removed, by remedies that oppose of opposition The same laws that regulate polar

applicable within the body as without, the same sub-The action of the electrical stances being acted on current on the vessels, the electrolytic decomposition of materials that can be thus acted on, have brought disease whose short course we attribute to an abor about results not hitherto attainable Merely as indicating results now of daily procuring, and which, no doubt, receive full consideration in the Sections, I mention only the remarkable effects had in the treatment of pelvic congestion, inflammation and its products, of stricture of the urethra, and similar le-Again, in affections of the trophic system, cutaneous diseases, etc, quite a different aspect has been given them by electrical treatment. Nor should I fail to mention the quite remarkable results which large number of cases that present strong reasons in have been lately achieved by the combined currents their symptoms or lineage, or both, for believing -galvano faradic

Will my brethren who practice the obstetric art permit me to ask why post-partum hæmorrhage shall not be promptly arrested by the faradic current, instead of by ergot, friction of the abdominal walls, and other reflex stimuli intended to secure uterine contractions?

There is a vast field needing cultivation in the application of hygiene to therapeutics The comparatively new method of the dietetic treatment of disease offers us remedial agencies which certainly approximate to exactness in method and surety in result Time and the occasion permit me only to offer the merest hints for your serious and wise consideration

ORIGINAL ARTICLES.

ABORTIVE TREATMENT OF TYPHOID FEVER

Read in the Section on Practical Medicine at the Thirty ninth Annual Meeting of the American Medical Association, May 10, 1888

> BY L D WOODBRIDGE, M D, OF WILLIAMSTOWN, MASS

Much has been written in reference to the abortive treatment of typhoid fever Most of the literature of the subject has concerned itself chiefly with the advocacy of different drugs, and the statement of clinical results obtained by them The profession will not test these methods extensively until they are shown to rest on a rational foundation of facts of anatomy, physiology and pathology My purpose is to make a beginning, at least, in this direction, to state the facts that should give both encouragement While I shall not omit and direction to our efforts a statement of my method, I count it of secondary importance The facts that have guided me to it are guiding me still, and have, I believe, still better things

The difficulty of proving beyond question the success of an abortive plan of treatment of a given disease is greatly increased by the following facts that in order to ment the name, the treatment ought to clinical history, that the symptoms pathognomonic of of the significance of early symptoms, contributions most diseases occur late in their course, that there-fore a successful abortive treatment will arrest most urine test, being probably also the most valuable

diseases before the development of symptoms that allow of a positive diagnosis, and while there is yet room for a possible doubt as to the identity of the tive plan of treatment

The demonstration of the success of an abortive treatment of typhoid fever presents these difficulties in an extraordinary degree, because the symptoms recognized in the past as absolutely pathognomonic all occur late in its history

The difficulty can be overcome and an absolute demonstration reached only by the following methods

- r Correspondence of results reached in a very them to have been typhoid fever
- 2 Post-mortem appearances obtained in the event of death from some other cause, during convalecence from what we believe to have been aborted typhoid fever
- 3 A possible aid may be had by a closer study of the early symptoms, that will allow us to attach more diagnostic authority to some of them than we have in the past, perhaps, also, by new methods of research to discover new pathognomonic symptoms that occur so early as to be always present even in aborted

Such observations will themselves need to demon strate their reliability by long and repeated trial be fore we can use them with absolute confidence in establishing the claim of any proposed abortive treat ment of the disease

The question at once presents itself How far have these difficulties been overcome? The reply will be found along the line of the three methods pro posed for overcoming the difficulties

A large amount of evidence has been gathered bearing upon the possibility of arresting the progress of cases giving reasonable ground, in symptoms or lineage, or both, for believing them to be typhoid This evidence will have varying weight with different minds

Our German confrères have done much, by ex tended observation, to establish to their own satisfac tion the utility of what they are pleased to call a "specific" treatment by calomel or sodium Niemeyer finds the argument so convincing as to state "that after the accurate observations of Wunderlich we can scarcely doubt that by this remedy (calomel) we may in some few cases cut short the disease" Sansom and Wilkes, in England, Henry, Peabody, Nelson and White, in our own country, are also among those who should be gratefully remembered for their re search in this direction

I am not aware of any published record of obser vations bearing upon the second method-post mor tem appearances in supposed successful cases of aborted typhoid fever, in which death may have oc curred during convalescence, from some other and unrelated cause

To the third method of a more exact determination

The present status of the problem may perhaps be fairly stated thus It will require the utmost diligence and care on the part of the profession for many years to come, in order to add to the extended observations of the past sufficient data to make a final settlement

of the question possible

Results already reached by observers in Germany, France, England and America afford so strong a suggestion of the possibility (some of us will perhaps say, the probability) of a favorable solution of the problem, that duty as well as interest should hold us all to careful observation and record of all facts bearing upon it It is this double impulse that prompts me to what I have to say

That I am not advantageously placed for original investigation, in a locality where typhoid fever is my lips against attempting an argument that rested to the fact of infection through the lungs It does impel me to come chiefly on clinical facts facts of anatomy and pathology with much modesty and with great deference to the views of those whose clinical opportunities have been greater

Let me state briefly at the outset those conclusions to which my own mind is tending, to which I shall

hope to win your assent

I That there is a modified form of typhoid fever, seen in localities provided with a pure water supply, whose development is slow, whose earliest symptoms are pulmonary, and which deserves more careful study than it has received

2 That there are early symptoms of typhoid fever to which we may attach much, if not a pathognomonic, value, a value greater than that we were accustomed

to assign them a few years ago

3 That certain facts of anatomy and pathology point not only towards the reasonableness of methods already employed for the so-called abortive treatment, but also of adding to those methods other expedients

4. That the cases so far observed in which these methods have been followed, though insufficient to fever, are sufficient to strongly suggest their usefulness, and to demonstrate their harmlessness

outside of typhoid fever in febrile affections, es-

pecially in those difficult to classify

We consider first, then, the evidence of the existence of a form of typhoid fever modified by condiwith a pure water supply

The azenues by which the typhoid germs gain entrance to the body are the respiratory and alimentary Lodgment in either of these tracts involves danger Lodgment elsewhere is probably harmless

We may well believe that the initial lesions will be different, and developed with different rapidity, according as the vehicle by which the germs enter, is the respired air or the ingesta—whether fluid or solid In the latter case the germs mingle at once with tions for rapid development. Here, too, is found a consideration of much importance in the symptomathat arrangement of blood-vessels and lymphatics tology

which gives most favorable conditions for rapid absorption, having indeed this for its office

Manifestly, germs entering by the respiratory tract will find much less favorable conditions both for increase and absorption, for here are in health no fermenting materials, and structure is adapted to inter-

change of gases rather than of fluids

Explanation of the fact that typhoid fever may be contracted through germs presented with respired air has been offered by the statement that some of the germs lodging in the pharynx and mouth are swallowed with the saliva. We may admit as at least equally probable, that after primary infection of the bronchial mucous membrane, germs contained in phlegm which is coughed up, but fails of expectoration and is therefore swallowed, may carry infection rarely seen, is doubtless true, and might justly seal to the alimentary tract Pathology adds its testimony

We can hardly fail to trace a growing tendency even to an argument based chiefly on acknowledged among recent authors to give greater prominence than before to the changes in the respiratory tract A more or less severe bronchitis, with not infrequent enlargement of the bronchial glands, is fast gaining deserved recognition as one of the most frequent I must content myself with only three quolesions tations from prominent authorities in support of this statement Loomis says "So constantly is catarrhal bronchitis present in this fever that Dr Stokes proposed to call typhoid fever, bronchial typhus" Niemeyer says "We find changes in the respiratory The typhoid laryngeal ulcer organs in all cases already described is not infrequently found There are always signs of an extensive catarrh even in the smallest bronch, marked by dark redness of the mucous membrane, and scanty tough secretion bronchial glands are swollen, vascular, and occasionally have a medullary appearance, such as we shall describe for the mesenteric glands" Flint says "The enlargement of these glands (bronchial) in some cases is considered as corresponding in pathological character to the enlarged mesentenc glands" This demonstrate finally their power to abort typhoid is a fact full of diagnostic significance for us, and of special importance where a well-protected public water supply reduces to a minimum the danger of 5 That these measures have a wide application infection from fluids through the digestive tract, and leaves open only the much smaller opportunity of infection through the respired air

Three conclusions are inevitable from these facts

1 That in cases where germs are received first into tions frequently obtaining in communities provided the respiratory tract, the early symptoms should be bronchial rather than abdominal

2 That in such cases the symptoms should be slow in development, owing to the conditions unfavorable to rapid increase and absorption of the germs

3 That such cases are likely to lack in their early history many of the typical symptoms of the disease, te, to be atypical, and that room should be given for such cases in our consideration of early symptomatology and diagnosis

We may add one more statement, viz that in dead organic material, and in the lower bowel with communities provided with a pure water supply, this fermenting fecal material—so finding the best condi- is likely to be the most frequent type of the disease,

If any question the possibility of infection through the lungs they must do it in the face of the fact that serting most, if not all, recent writers concede it on the proven double ground of clinical experience and pathological to a preceding case need not deter us from a diag

The testimony of the inflamed bronchial mucous membrane and the enlarged bronchial glands is not and practical estimate of symptoms easily gainsaid

SYMPTOMATOLOGY

We turn next to symptomatology, and especially to the question whether there are early symptoms to which we need to give more prominence than in the Whatever concerns diagnosis may find place here, for if we are to claim abortive treatment of typhoid fever, we shall need to establish reasonable, if not positive evidence that the disease whose short course we attribute to the treatment is indeed typhoid, and therefore one whose natural history is a course of several weeks' duration

We find ground for diagnosis of disease from

I Its lineage, both as regards its parentage and offspring

2 From symptoms observed during its course

From post mortem appearances

Typhoid fever is a disease that may give us evidence from all three sources Aborted typhoid fever, except as death may come in early period of convalescence from some unrelated cause, can gather its evidence from only the first two sources, lineage and symptoms

The discussion of diagnosis, so far as it depends upon lineage, leads immediately and necessarily to the question of etiology Is it ever of spontaneous origin? This we have not now time to discuss, and must content ourselves with a statement of the fol-

lowing postulates

1 No recent prominent writer, with possibly one exception, ventures to positively affirm the negative as more than an individual opinion

2 All recent and prominent writers mention both views with respect

3 The strongest opponents of the spontaneous origin have in many instances to confess their inability to trace the relationship they claim between a given case and its parent

4 Several of the most prominent recent writers are to be guarded in the patient's behalf, as, if successful, zealous champions of the spontaneous origin of the the treatment must begin early

disease from putrescent organic matter

Loomis admits that there are strong advocates of both sides, though himself not a believer in sponta-Murchison stoutly upholds spontaneneous origin Reynolds' "System of Medicine" makes ous origin this statement, "We must therefore conclude that this disease has a spontaneous origin in putrescent matter" Wilson, while himself a dissenter, admits the weight that must be given to such an advocate as experience

The latest utterance from high authority I have been able to find is that of Dr Janeway, who, in the ciety, last fall, defined his position as one of willingwith which patients are, at first, unwilling to believe
ness to admit the possibility of its arising de novo from
filth fermentation, but inability to admit it as more filth fermentation, but inability to admit it as more as those of a cold, is referred to by many writers than a possibility

In view of these facts, are we not justified in as I That it must be said of both views Not 2 That inability to trace a suspected case nosis of typhoid fever

Three considerations must control our discussion

That we have to do with a disease whose pa thognomic symptoms occur late in its clinical history

2 That its early symptoms are generally obscure and not infrequently attend other diseases

3 That if we shall ever arrive at a successful abor tive treatment we shall see only the earlier symptoms, and even these modified by this treatment If asked to give the most characteristic symptoms, we should doubtless answer the eruption, and abdominal symptoms of tenderness and diarrhoea, and the peculiar temperature curve If intestinal hæmorrhage is present it doubtless strongly confirms the diagnosis, but as that occurs in only one in twenty of well au thenticated cases we can hardly class it among the symptoms to be expected, even in a case following the natural history of the disease Eruption and diar rhea rarely occur before the early part of the second week Abdominal tenderness is often present among the earliest symptoms

How many of the symptoms generally considered as most essential to a positive diagnosis we shall find in aborted cases, if such exist, will depend upon how early we have begun the treatment and how rapidly

it proves effective

In the cases that have fallen under my observation, eruption has not been infrequent, and abdominal ten derness quite constant Diarrhœa has been of rare occurrence The temperature curve we should also expect to find materially modified by successful abor tive treatment, though retaining certain strong points of resemblance, quite enough to suggest, if not estab We must, therefore, if admitting lish its parentage an abortive treatment, undertake a careful and cor rect estimate of the value of other and early symptoms

Under the former expectant or symptomatic treat ment, we found our most urgent motive to early di agnosis in prophylaxis in the interest of others than If an abortive treatment is accepted as the patient possible, our motive is strongly reinforced by interests

It therefore behooves us, in the future, to give the closest attention to the symptoms that will afford us, if not positive, at least reasonable, grounds for early A careful review of the statements of diagnosis Loomis, Flint, Bartholow, Wilson, Niemeyer, and the "Systems" of Pepper and Reynolds, must lead us to assent to the following conclusions, which will also doubtless find verification in our recollection and

We must limit ourselves to those symptoms that are sufficiently characteristic to be an aid in early

differential diagnosis

The onset is generally insidious The frequency

Headache, often of great severity and obstinacy, but sometimes slight, is rarely absent

Epistaxis is referred to by all writers as a usual symptom, varying from so slight a degree as almost

to escape notice to profuse hemorrhages

Tenderness of abdomen, sometimes quite general, sometimes most apparent in right iliac fossa, is universally mentioned, and if to it is added ileo cæcal

gurgling, it gains still more significance

Constipation is probably more frequent than diarrhæa during the first week, though several writers assert a tendency to more than the usual response to a mild laxative There remain the three symptoms which, I believe, deserve more weight than we have been accustomed to give them, viz cough, temperature, and Ehrlich's urine test

atory tract, has been sufficiently stated geal nerve This view would seem to be supported in the cacum the altered physical signs at right apex that often at- to establish in this connection are three tend such enlargement

most, if not all cases, the cough and mucous expectoration betray the bronchial catarrh " Wilson says "Bronchial catarrh is of sufficiently common occurrence to acquire a certain amount of diagnostic significance" Loomis writes "Slight bronchial catarrh can hardly be regarded as a complication, it is so much a part of the clinical history of the disease "

Temperature — In typical cases, the well-known temperature curve is observed early in the disease, if not from its beginning, but atypical cases are so frequent that we need to inquire whether there are not other features of temperature that will afford valuable This, Wilson believes, we have in a marked tendency toward a constant morning remission, and this my own observation strongly confirms, as my of temperature resulting from treatment widely atypical the temperature may be is shown by the outbreak among the German troops at the siege of Paris, where many fatal cases occurred without rise of temperature Wilson calls attention to another feature of the temperature that he deems characteristic, viz that it is very labile, easily elevated by trifling causes, as first solid food, etc makes much of sweating as a diagnostic sign

confirmation, promises to be most useful

treatment of typhoid fever, and which suggest modifi-

rious intestinal lesions occur, the location of the areas of intestinal ulceration, the relation of the

large mesenteric glands to those areas

The period of occurrence of the intestinal lesions calls for only brief statement Enlargement of the solitary glands may be observed as early as the third or fourth day in some instances, and continues till twelfth or fourteenth day, when ulceration begins, and may continue till the twenty-eighth day statement is significant chiefly as indicating the narrow limits of the period during which an abortive treatment that depends solely upon intestinal antisepsis can have any hope of proving effective

As to location of lesion, the duodenum escapes ul ceration, the jejunum is very rarely affected, the ileum is most frequently the sufferer, and ulcerative Cough, at first dry and hacking, is insisted on by lesions are frequently confined to the last four feet several writers as an aid in many cases My own of the ileum, while the largest ulcers are almost inview of its importance where we may fairly infer that variably found in the last six inches of this portion infection, if present, has occurred through the respir- of the intestine, i e, in the part just above the ileo-I question | cæcal valve It is, indeed, not infrequent, in cases whether the spasmodic cough often seen in such cases | presenting few ulcerative lesions, to find them limited does not depend upon pressure of enlarged bronchial to this small portion of the intestine. In the large glands upon the bronchi or upon the recurrent laryn- bowel, the most frequent seat of ulcerative lesions is If found beyond that, they grow less not only by the character of the cough, but also by frequent as we go downward The important points

I Tendency toward such lesson increasing in the Fint states that "a slight or moderate cough is small intestine as we recede from the point of enalmost invariably present" Niemeyer says "In trance of the bile—an antiseptic fluid—a fact that suggests the possibility, at least, that this natural antiseptic fluid proves generally effective in the upper part of the small intestine, and that therefore the addition of another antiseptic might so far extend the effect that the entire intestinal tract should escape injury from the bacillus It is true that it is only a suggestion of such a possibility, and not a demonstration, a suggestion, however, of such force as to make it a duty to address ourselves diligently to the task of testing the possibility by all safe means

2 The ulcerative tendency culminates at a point remote from the point of entrance of the bile, and behind an obstruction constituted by the ileo-cæcal valve, and analogous to the obstruction afforded by a stricture of the urethra, behind which the congescases have followed this rule even during the decline tion, inflammation and ulceration that maintain a gleety discharge so often intrench themselves

> 3 The large intestine developing the ulcerative tendency most in the cæcum, where fæcal matter is most easily long retained, and progressively less as we go toward the rectum, where evacuation of con-

tents is most frequent and immediate

The therapeutic significance of these facts lies He also chiefly in the suggestion that whatever we can safely do to reduce this natural obstructive tendency of the Ehrlich's urine test, though perhaps needing further leo-cæcal valve, and to keep the bowel comparatively free from long retained fæcal matter, will contribute We turn next to the discussion of anatomical and to the recovery of our patient, and to the prevention pathological facts that suggest the reasonableness of of the worst features of the disease, dependent on methods previously advised for the so-called abortive ulcerative lesions That the mesentenc glands most involved are always those immediately related to the cations of those methods and additions to them The ulcerated areas, is the fact that most concerns us in facts most significant in reference to our present purtheir pathology, a fact that has, as yet, proved rather Pose are the period of the disease at which the va- suggestive than productive in my own thought

Besides these pathognomonic, pathological lesions, there are other minor ones, of not infrequent occurrence, not considered pathognomonic, and yet of ministration of antiseptic drugs which are eliminated perhaps greater significance than we have been accustomed to think These changes concern the upper portion of the alimentary canal and the res-The large swollen tongue, indented piratory tracts by the teeth, the swollen lymphatic follicles in tonsils and at base of tongue, and the not infrequent ulcerations found in pharyn, osophagus, laryn, and trachea, are referred to by most recent authorities as coincident with, and analogous to, the intestinal These minor lesions afford important therapeutic suggestions as to addressing an antiseptic abortive treatment to the entire digestive tract from mouth to anus, and if possible to the respiratory tract! as well

It is also a suggestive fact that, even when no abortive treatment is attempted, cases are not infrequently found in which the first authorities (Loomis, Pepper, as they must all be reached by some agent which Reynolds, Wilson, Bartholow) accept without question is swallowed the view that the solitary and Peyer's glands, after the enlargement observed in the early period of the disease, undergo resolution without ulceration, a fact | following facts that disposes finally of the objection often advanced against abortive treatment, that if the poison once gains entrance to the system, the disease must run through all its peculiar phases both of symptoms and pathological change

Having these suggestive facts of the pathology of the disease, let us endeavor to build upon them a

reasonable

THERAPEUSIS

The movement to find an abortive treatment for typhoid fever has arisen in connection with the theory of the intimate relation of a specific germ to the That view may be now fairly regarded as disease established, and, if true, it is only rational for us to search for some agent with which we may directly Indeed, we should be lacking in combat the germ our performance of duty did we, as a profession, fail in the urine The profession to make such search most diligently have not been forgetful of this duty, and as a result, the day seems near its dawning when we can set before ourselves more rational and definite aims in our therapeutics

A therapeusis based upon the germ theory must, in view of our present imperfect knowledge, set before itself two aims

I To destroy the germs of the disease, or arrest their development

2 To combat the ptomaines which are developed

during its course

We consider first the conflict with germs conflict we may well believe must be conducted on two fields

1 On the surface of mucous membranes with germs that have not yet entered the tissues

2 In the tissues with germs that have gained ac-

cess to them

efficient antiseptic therapeutics to the bronchial mu- tents Certain facts of clinical experience are sug-

cous membrane is still open to question Inhalation of antiseptic vapors or of oxygen, and internal ad by the lungs, as, for example, eucalyptol, are as yet our best and very uncertain agents

The alimentary tract we can deal more directly with, and through a larger variety of agents We may approach it through two avenues-the mouth and the anus, in both cases our agents are likely to lose in effectiveness as we depart from the point of introduction, while that introduced into the rectum will be limited to the large intestine As far down as the ileo-cæcal valve we must depend solely upon antiseptics introduced by the mouth, and cur aim should be to use antiseptic measures along all the tractmouth, œsophagus, stomach and intestine

The mouth and throat may be reached by a mouth wash or gargle frequently employed The esopha gus, stomach and intestine we may consider together,

Would intestinal antisepsis be useful if we could effect it? We may find an affirmative answer in the

a Even in health, a considerable portion of feeal matter consists of micrococci and micro-bacteria, and that poisonous ptomaines are developed as a re sult of their activity

b The effect of nature's disinfectant fluid in the intestine, viz the bile and its apparent effect in restraining development of the germ in the upper por-

tion of the small intestine

c The results of clinical experience

May we safely attempt such intestinal antisepsis? Clinical experience must here again give us our only That we may safely take considerreliable answer able amounts of some antiseptic materials into the digestive tract is well established, and if doubt exists, it must concern the question whether these amounts Fortunately, we have are sufficient to be efficient a test for that in the presence or absence of phenol It is a constant product of intestinal putrefaction, and is eliminated by the urine Dr Henry has demonstrated that during the use of thy mol phenol disappears from the urine-a proof of effective intestinal antisepsis Perhaps no more striking proof of the possibility of intestinal antisepsis could be afforded than this action of thymol -It does not lower temperature when no sever exists, its effect is uncertain, and at best slight, if fever is not associated with disorder of alimentary tract, it proves an act ive antipyretic in typhoid fever where such disturbance, dependent upon germs, is at its height Phenol here, too, disappears from the urine during its use

Another clinical fact going to prove intestinal anti sepsis to be both possible and safe is the large class of antiseptics that are effective agents for the arrest of diarrhœa dependent on germ development Ac knowledged advocates of this view are found in large numbers among the first names in the profession

Other agents than germicides may aid in limiting The first field we find in the respiratory and all-germ production in the bowel Evacuants may aid The possibility of the application of us by preventing long retention of the intestinal con

gestive of the very practical value of evacuant measures in typhoid fever Loomis says diarrhea through the entire course of the fever is a favorable rather than an unfavorable symptom " "When the diarrheea is present in the early period of the disease, it is better to let it alone " The advan tage of an active laxative in the initial stage of the disease is too generally conceded to admit of doubt -an advantage shown in reduction of the number of microorganisms, and in reduction of temperature

disease, the problem of controlling development of the germs in the tissues may not be so difficult, and may not require a charging of the whole body with The problem will be a simple one, if we can find special hiding and breeding places of the germ within the body, where the bacilli are rapidly developed, and from which they, or the poisonous pto into the blood in increasing quantity, till its power of disposing of them is exhausted, and the whole system succumbs to their influence That such is the fact I think we must admit, if we would give a rational explanation of the phenomena often observed

What are these hiding and breeding places? My answer rests in part on some well recognized facts of anatomy and physiology, and in part upon some not irrational, but I will admit theoretical, inferences from these facts In the ordinary process of absorption from the intestine, two carriers wait in the in digestion into the circulation, viz the capillaries and the lymphatics Material in solution, as the peptones, enters by way of the capillaries, material in suspension, as the emulsioned fat, by the lymphatics, aided, doubtless, by the peculiar structure of the epithelial cells, whose root-like processes of adenoid tissue extend to, and are continuous with, the wall of the lymph vessel in the centre of a villus closely packed rods on the surface of the epithelial cell first entangle the foreign body, and the amœboid activity of the cell conducts the entangled mass along the cell tissue and its root-like processes, till it reaches the cavity of the lymph vessels, so determining its entrance into a lymphatic, rather than a capillary

We may fairly infer that this is also the pathway of the germs, as they would correspond more to the suspended oil globules than to the dissolved peptone A few germs, perhaps, enter the capillaries, but we may well suppose that a fluid containing as much ovygen as the blood, with which it parts readily, would be capable of promptly disposing of a small number

of such germs

On the other hand, germs received into the lymphatics find a medium much less inimical to germ development, as it contains only a slight trace of As these pass along the lymph vessels to the point of entrance into the general circulation, they are obliged to pass through, we might almost say to be filtered through, the pulp of the mesenteric diet specially rich in fats, would gain the same result glands and many of them would be almost inevitably

moved from oxidizing agents Those carried on "A mild through the glands to the general circulation may be destroyed by the well oxygenated blood

Favorable as is the condition in the mesenteric glands for germ development, a much more favorable condition is found in the closed lymph follicles that constitute the solitary glands and Pever's patchesentirely closed sacs, with no lymph current running through them, as have the mesenteric glands, to molest developing germs, the products of the glands es-If opportunity of treatment is offered early in the caping probably partly into the capillaries, and partly into the lymph sinuses that he beneath them

My view, supported, but I will admit, not proved. by the peculiar lesions of the disease, is that the an antiseptic sufficient to be destructive in every germs, finding their first place of lodgment and increase in the contents of the bowel, find a second such point of lodgment and increase in the closed lymph sacs of the solitary glands and Pever's patches and in the lymph glands of the mesentery, their rapid maines which they produce, or both, are poured out increase there giving rise to inflammation and enlargement of their structure, and to a constantly increasing rate of discharge into the blood, till that fluid is no longer able to destroy the germs or their products, the ptomaines, and the constitutional symptoms, characteristic of the disease, result

If this be true it has an important bearing upon the possibility of abortive treatment If intestinal antisepsis be possible we certainly have an early opportunity of aborting the disease, while germs are

confined to the contents of the bowel

If my view of the part played by the solitary, testinal wall to convey the nutritive products of Peyer's and mesenteric glands be true, we have a second opportunity, after the germs have gained access to the tissues, but are practically confined in their development to these lymph structures, and the blood is yet able to dispose of such as are discharged In partial support of such a view, let me om Loomis "It is scarcely questioned that into it quote from Loomis the typhoid poison, to a great extent, gains entrance to the system through these glands and lymphatics, and here produces the primary irritation '

This fact gives two most useful suggestions to one who aims at the abortive treatment of typhoid fever

1 That though it were proven to be unsafe to introduce into the general circulation a germicide in quantity sufficient to be effective there, still he need not limit his antiseptic measures to the intestinal tract, but may make the effort to pursue the germs as far, at least, as their first place of hiding and increase in the tissues, viz, the lymph structures of the alimentary tract

2 That probably the most effective agent for such pursuit would be a fatty germicide, if that can be found, or failing of that, a germicide so united with a fat that in the process of digestion it will be retained in the fat when the latter becomes emulsioned, and would be so absorbed by the lymphatics, as the fat is

It is also possible that an insoluble germicide finely triturated, might prove effective Or, that accompanying a germicide which is soluble in fats, with a

The prospect of obtaining a germicidal effect in entangled there, and find, if not an ideal, at least a these tissues would seem to be excellent, as these favorable, place for development, comparatively re- organs he directly in the path of absorption from the bowel, and as the lymph current is at best a very slow one, allowing more time for the action of a germicide in the gland tissue, before it should be car- trefactive changes are active in the body ried on into the general circulation

The structure of the spleen, closely allied as it is to that of lymph-glands, suggests that it would be likely to prove a place of hiding and increase for the germs, after they had once been thrown into the blood faster than that fluid could dispose of them, and this seems to be the case as shown by its constant enlargement, a change subsequent to that in the intestinal and mesentenc glands, and by the en ormous number of the germs found there in fatal cases by microscopic examinations

The possibility of pursuing the germs to this point turns upon the possibility of safely introducing a ing chiefly the heart, lungs, and cerebro spinal germicide into the blood in sufficient quantity to prove effective, unless it should be found that the spleen, tolerant as it is of some forms of hypodermic is not the germ, simply as a foreign body, but the medication, should be tolerant of some effective ptomaine (or ptomaines) resulting from the growth germicide given in that way

It appears, therefore, that there are three periods in the disease during which we may address ourselves to germicidal, and so abortive, treatment of the among these diseases

disease

testinal tract

2 After they have gained access to the lymph structure of the intestine and mesentery, but while the blood is yet able to dispose of all the germs thrown into it from the glands

3 After the production of germs has passed the limit of the blood's power to destroy them, and there

occurs a general infection of the body

Manifestly the difficulty of attaining our aim increases as we advance from the first to the third of

these periods

Whether a single remedy suited to all stages can be found, and if not, what choice of remedies we had best make for each stage, whether in treating each stage later than the first, we must carry over into it the remedies of the preceding stages, are problems that will require close observation and most patient research

So much for the first of the aims we set before us,

viz, combating the germs of the disease

The second aim is to combat their product-a ptomaine or several ptomaines, which, we cannot yet assert

The ptomaines are the latest, and a most welcome and suggestive addition to our knowledge of the They open up a wide field for causes of disease surmise and investigation, and give more promise of leading us to rational treatment of disease than has any fact brought to our notice for several years past

A brief statement in reference to them, which will serve to freshen recollection in our thought, will not be amiss Perhaps we may best present such a statement in the form of the following postulates

1 As vegetable cells, by an activity peculiar to themselves, develop a material known as an alkaloid, so animal cells in normal activity develop materials known as animal alkaloids, ox ptomaines 2 That ptomaines are also developed under other

conditions, viz, in the normal processes of digestion, and under all circumstances where bacteria and pu

That these ptomaines are numerous, the kind developed depending upon the character of the cell that produces them, the species of bacteria at work, and the stage of putrefaction

4 That many diseases are attended with the de velopment of a ptomaine peculiar to the disease, and which, if introduced into animals, causes promptly the development of symptoms allied to, if not iden tical with, the symptoms of the original disease

5 That the ptomaines produced differ with each

disease so far as investigated

6 That these ptomaines produce symptoms affect

7 That the active agent producing the symptoms of the germ and the changes it effects in albuminoid material of the tissue or of the intestinal contents

8 That typhoid fever and lobar pneumonia are

9 That from cultivation of typhoid fever bacillus, I While germs are limited to contents of the in- a ptomaine has been derived which proved fatal to small animals in twenty-four hours

10 From the urine of both typhoid fever and pneumonia patients two extracts have been obtained, either of which will produce death, but whereas one leaves the heart in diastole, the other leaves it in systole

II That several facts point to the conclusion that these ptomaines are thrown off by the excretions, and that such elimination, if rapid, is sometimes fol lowed by a prompt disappearance of symptoms

Such a fact is the sudden termination of symptoms after profuse sweating, as in intermittent malarial Such also is the remarka fever and in pneumonia ble success had in the treatment of yellow fever by hypodermic injections of ½ to ¼ of a grain of pilo carpine muriate, reported by Dr. E Habersmith The profuse sweating and catharsis or emesis, or both, was followed by return to health in forty eight hours

This ptomaine enemy we may combat in the di rection of preventing its formation, of destroying it by effecting its decomposition, by using strictly antidotal remedies and by hastening its elimination from the system Doubtless the best, indeed perhaps only way of preventing its formation is by destroying or rendering mert the germs of disease, whether in the Therefore any germi intestinal tract or the tissues cide that we use effectively for that purpose will at the same time effect this

The destruction of the ptomaine after it has once appeared in the system is something that we know little about, too little as yet for intelligent discussion, and we therefore dismiss it with this simple mention, and the suggestion that we may find encouragement to our effort in this direction in the fact that some at least of the ptomaines have an exceedingly unstable chemical equilibrium, and may therefore offer themselves easy victims to an agent that invites their con stituents to more stable combinations

slight extent, unwittingly followed in the use of digitalis for heart failure

Elimination of the poison we may perhaps hasten in vigorous patients by profuse sweating. The remarkable results gained by Nelson with veratrum italis viride are perhaps attributable, in part at least, to the drug acting in one or both of these methods large bowel free from accumulation by large enemata, in addition to those already referred to cially is this the case when we remember that the large intestine is in health the place of most rapid development of bacteria and formation of ptomaines, and also an organ capable of carrying on active ab This is a field that waits our study, and seems to offer a rich harvest to the wise and patient seeker

Having laid this foundation of many facts of anatomy, physiology and pathology, and I hope not matenally weakened it by some theoretical considera tions drawn from them, I am ready to present in detail the methods of treatment I am accustomed to follow

No precaution, in effort to procure good ventilation, pure air, proper diet and careful nursing, is In cases presenting evidences of primary infection through the respiratory tract, I have sometimes employed creasote inhalations with Beverly Robinson's oro-nasal inhaler, with apparently good results, in at least diminishing cough

The digestive tract receives antiseptic attention

throughout

Frequent use of an antiseptic mouth wash, generally Dobell's solution with listerine added, has been only recently employed, and I do not feel justified in urging it on the ground of any positive results demonstrated yet, but on purely theoretical considtions derived from pathological facts already noted

To this antiseptic wash is added occasional doses of the gr of hydrarg iodid rubr in 1 per cent trituration with sugar—this to be used three to six times a day, allowed to melt on the tongue, and no fluid to be taken after it for several minutes The antiseptic effect of this is doubtless felt in the mouth, esophagus, stomach and bowel In order to avoid the danger of salivation this is not used after the second or third day, unless very infrequently

The main dependence for intestinal antisepsis as far as the ileo-cæcal valve, is sodium salicylate in doses of 10 grains every two to three hours, given either in capsules or Wyeth's compressed tablets I am well aware that it has been pronounced by some high authorities to be not only useless, but also positively injurious, attention has been called to the statement that it depresses the heart, diminishes of evil effects from one full dose at the outset increases diarrhoa and tendency to hæmorrhage

The antidotal treatment we have probably, to a in methods of administration that I have found necessary, have been to take a few swallows of some fluid nourishment before the capsules, and the addition, in some cases where the patient's circulation is poor even in health, of a few small doses of tr dig-

There is a large class of available antiseptics It have used sodium salicylate not because I know it suggests another possible advantage of keeping the to be the best, but because I found it safe and efficient Other agents that call for very favorable mention are Dujardin-Beaumetz's solution of carbon bisulphide, thymol urged by Dr Henry, beta-naphthol advocated by Dr Bouchard, naphthalin advocated by Dr Peabody seems to have a good record using it we need, however, to remember that it is objectionable in cases in which lung symptoms are In well selected cases I am disposed to think it may prove more effective than sod salicylat, as Dr Peabody finds it reduces temperature to normal in 24 to 48 hours, a more prompt result than I dare claim for the soda salt

> Salol I have been led to be suspicious of, as, if used in sufficient quantity it needs to be closely watched in reference to its effect upon the kidneys Two 10 grain doses have, in my experience, once caused suppression of urine

> The iodine carbolic acid of Dr Sansom, of London, also advocated by Bartholow, has in my hands proved very disagreeable to patients, and much less

efficient than sodium salicylate

Sulphurous acid, much praised by some, and the phenic acid treatment of Dr Déclat, have served me well in a few cases, but not as satisfactorily as the

sodium salicylate

My third therapeutic agent is calomel, given in one large dose at the outset, if the case is seen before a free diarrhoea has set in If seen later on, a dose of equal parts of castor oil and syr rhei has the preference, as an efficient but soothing laxative, which tends to limit its own action If abdominal palpation and percussion give no sign of accumulation in the bowel, even this would be omitted in cases with free diarrhœa. The use of laxatives in the disease has been much inveighed against In Reynolds' System we find the statement, "Calomel should be avoided, its action is too irritant " One cannot but wonder, prior to personal experience, whether the danger is not overstated by authority, when reading of the results gained by the Germans, as shown by statistics covering hundreds of cases, and of Dr Bartholow's large confirmatory experience rather assent to the statement of that sage among medical teachers, Dr Loomis, who says greatest caution must be observed in the use of cafact that it is eliminated by the kidneys and may irri- thartics in any stage of the fever " The German tate those organs I am grateful for the suggestion, mortality, reduced from 13 2 per cent by the exand always watch the urine of my patients closely, pectant treatment to 8 8 per cent by an active calwhile using it, but have yet to meet any unpleasant omel treatment continued during the first week, may result from its use The same may be said of the go far towards relieving our minds of apprehensions respiratory movements, causes gastric disturbances, tholow comes strongly to our support with advocacy I of 71/2 to 10 grain doses every alternate night till the have watched for, but have not observed them, as in third or fourth day Dr Peabody, who believes that any way troublesome results The only precautions for two years past he has aborted many cases coming

under observation during the first ten days of the disease, employs as an initial measure a 10 grain dose Niemeyer, Liebermeister and Wunderlich also lend the support of their strong names to the treatment

Apart from my own confirmatory experience, I cannot but conclude from the testimony of others that the measure is at once safe and useful member to have heard Dr Fordyce Barker give his value of this and of intestinal antisepsis carried on approval to such an initial dose as a wise rule

My evacuant agent for the remaining course of the disease, after this initial dose of calomel, or castor oil and rhubarb, and also my chief reliance from beginning to end of the disease for an antiseptic agent below the ileo cæcal valve, is a daily large enema of an improvised decoction of chamomile flowers and The nurse is instructed to add a small handful of chamomile flowers to 3 pints of water, and allow it to simmer, without boiling, on the stove for one hour, then to strain it through cheese-cloth to remove any woody fibre that might prove irritating, add a teaspoonful of borax and administer as an enema, giving all that the patient can be persuaded to At the second or third using, if not from the take outset, an adult will generally take all for a few minutes is not essential, but doubtless increases the beneficial effect At times, no little tact is required to induce the patient to take the necessary amount In difficult cases, the Sims position, and momentary pauses in the administration, will facilitate the process A slight amount of discomfort during the giving of the enema is not unusual, but need not deter us

Some writers give urgent warning against the use "Large enemata of such enemata Wilson says are attended with danger arising from their liability to set up energetic peristaltic movements which may extend to the lower part of the ileum " "The constipation of enteric fever is most safely treated by tensity of the diarrhoea, and I have obtained most the daily administration of small enemata of strong warm soap-suds or of thin gruel" Much of the acknowledged force of this argument as applied to advanced cases in which there is a probability of ulceration having occurred, is lost, when we apply the he mentions its use by the stomach alone, but I should treatment in the early history of the case, where the not hesitate to use it largely diluted as an enema, as abortive treatment has its best opportunity

In treating advanced cases the size of the enemata The advantage of it in early should be reduced treatment is enhanced by the "peristalsis extending to the lower part of the ileum," as the measure proves in that way not only an evacuant agent for the large bowel, so removing obstruction from before the fæcal matter lying just above the ileo-cæcal valve, but also as an active evacuant of this matter in the lower portion of the ileum, at the point of most frequent

ulceration

The vast importance of any agent that will give safely a daily evacuation of the material tending to collect here, so preventing not only the irritation resulting from such collection and retention and consequent fermentation in the early history of the disease, but greatly diminishing the amount of absorption of ptomaines and septic material likely to occur by like means—less the enemata, which I believe to through the abraded surfaces of the ulcers—the im- be a most potent agent—they have frequently aborted

portance of such an agent is, I believe, incalculable We may, perhaps, give emphasis to it by calling to mind the fact that, while the bladder in health allows of almost no absorption, in diseased conditions resulting in ulceration some topical applications have to be most cautiously used, in order to guard against the danger of absorption through the abraded surfaces

Another consideration adds to our estimate of the Wilson has pointed out most clearly that the fever has two distinct movements the first or primary fever, due to specific germ infection, the second, an irritation or hectic fever from ulcerations, sloughing and resorption Even if the impossibility of destroying or retarding development of the specific germs in the intestinal tract or the tissues, or of combating the ptomaine which appears coincidently with their de velopment and activity, should be demonstrated, there yet remains here, in conflict with the causes of this septic fever, a large field for abortive treatment of typhoid fever We might well hope to limit the symptoms to the type represented in the class of cases grouped by most writers under the head of abortive typhoid, in which, from failure of the en Retention | larged solitary glands and Peyer's patches to ulcerate, we have the course of the fever limited to that due to specific germ infection

> The chamomile and borax I have employed, not because it is necessarily the best, but it is simple and seems to be efficient. It combines in each of its constituents agents that are mildly antiseptic and astringent Stronger antiseptic solutions could doubtless be safely used In future cases I shall be disposed to use the solution of carbon bisulphide, rec ommended by Dujardin-Beaumetz He says of it "For six months I have been giving this carbon bi sulphide water in typhoid fevers in doses of from 5 to 10 tablespoonfuls a day according to the insatisfactory results from the point of view of intestinal antisepsis Nor have I seen any untoward accidents from its employment It has proved to be possessed of efficacy above all other medicaments" It is true

well as per os

Other promising therapeutic agents for enemata are oxygenated water, solution of peroxide of hydrogen and, as supplementary to, rather than substitute for, fluid enemata, gaseous enemata of oxygen

This is the treatment that I commend to your favor-It is new only in the particulars able consideration of attempted antisepsis extending through the entire alimentary tract and to the lungs, and in the use of large and antiseptic daily enemata

Does this treatment abort typhoid fever? I cannot answer positively, because, as we have seen, typhoid fever rarely, if ever, admits of an early positive

I believe that it does diagnosis

1 Because the method commends itself to me as rational, and not unlikely to give such a result

2 Because competent observers are persuaded that

pronounced cases of the disease (Peabody, Henry, had never before suffered from it with such frequen-

3 Because my own experience is sufficient alone

to justify such a conclusion to my own mind

It must be a matter largely of judgment, and therefore I cannot find fault with those that dissent have grown familiar with the answer that many objectors make to the second and third reasons offered for "the faith that is in me" "There was an error in diagnosis, the cases, if arrested, were certainly not typhoid " I heard it first from Dr Alonzo Clark in the course of one of his lectures on typhoid fever "Gentlemen, if you arrest a fever you have diagnosed as typhoid, that fact is proof of your error in diagnosis" I question whether the day is not passed when fair minded men will venture to assert that as more than an opinion I trust the argument, with such record of the experience of others as I have been able to offer, would commend itself to you for trial, without evidence from my own experience

I have already so far trespassed upon your time that I am impelled to offer only a few illustrative cases to meet the demand of this practical time, that asks every one who advances a theory to establish it by evidence The demand is perhaps more reasonable, since the method has some new features, clinical evidence of the value of which cannot be had as yet, unless offered by my cases As the early positive diagnosis of typhoid fever is of at least questionable possibility, I will narrate the symptoms and leave each one to draw his own inferences One group of seven cases in the same family, using the public water supply, which was doubtless pure, so that we might look for infection through respired air, will be repre-

First Patient —Young man, much indisposed for over a week before I saw him Severe cough which did not yield to ordinary remedies Seen December 25 Frequent chills through the night, temperature 102°, headache, marked abdominal tenderness, most marked in right iliac fossa, with moderate tympanites and distinct gurgling Eruption on abdomen fourth day after seen No looseness of bowels Morning temperature 2 5° less than evening Temperature steadily declined during treatment, normal on sixth ness and entire loss of appetite, developed

Second and third cases taken ill December 30, five days after the first was seen No 2 had no marked First temperature observed 101 3°, headache, Eruption on abdomen (three spots) the fifth day after treatment was begun, tenderness over abdomen quite general, most marked in right iliac fossa, gurgling slight, marked morning remission,

temperature normal on fifth day

No 3 No distinct chill, but frequent chilly sensations, headache, nose bleed, slight abdominal tenderness, spots of pneumonia, highest temperature 104° Temperature had fallen nearly to normal on sixth day, when pneumonia set in, confined to bed for two weeks, no eruption observed

Case 4—Chill, temperature 102 5°, marked ab-

Temperature normal on fifth day

Case 5 - Severe chill, marked tenderness of right iliac fossa with moderate tympanites, highest temperature observed 102 75°, headache, no eruption Temperature normal on sixth day

Case 6 — Headache severe, no nose bleed, no abdominal tenderness or gurgling, no eruption On bed but not undressed most of three or four days Highest temperature observed 100 75° Normal on

the fourth day

Case 7 suffered least, no chill, no abdominal tenderness, headache, no nose bleed, temperature 100 5° Normal temperature on fourth day No eruption A partial explanation of the lightness of the symptoms in the last two cases may be that they had been previously using a per cent trituration of hydrarg iodid rubr as a prophylactic measure

The temperature of all showed a marked morning remission, and all felt, during and after the fever, a degree of prostration out of proportion to the other Enlargement of spleen was marked in symptoms All had a troublesome No 1 and slight in No 2 cough, as might be expected, considering the probable avenue of infection, the lungs Nos 1 and 2 sweat profusely during convalescence

Case 8 —The patient was exposed to typhoid fever during his care of a friend who died with well-marked symptoms of the disease, viz, headache, epistaxis, tympanitis, abdominal tenderness, ileo-cæcal gurgling, diarrhœa, and as typical an eruption of typhoid

fever as it has ever fallen to my lot to see

The friend was not under my care, but I saw him a few times at the request of his physician less attention of those nursing him left his linen often soiled with the discharge, and the air of the sickroom foul

The person who later became my patient laid out the body of his friend and complained bitterly of the foulness of the body and linen Eight days later he suffered from serious malaise, chilliness, and slight headache, but did not call medical aid for a week, during which time his symptoms grew constantly worse, and thirst, feverishness, abdominal tender-When I first saw him temperature was 104° Headache intense, abdominal symptoms of tympanitis, tenderness and gurgling well developed, and patient had had epistaxis Next day eruption on abdomen ap-Temperature steamly declined to normal peared on fifth day

Case 9 also assisted about the patient who died, and had symptoms corresponding nearly in time of development with Case 8, but of less severity—viz, quite pronounced chill, headache, temperature 102 6°, abdominal tenderness, pain and tympanitis with ileocæcal gurgling, but no eruption Seen at same date as preceding Temperature normal on fourth day Both 8 and 9 had slight, dry cough

Case 10 occurred in a locality where well marked cases existed at same time Patient was seen on dominal tenderness, tympanites and gurgling nose third day of decided symptoms Temperature 103 4°, bleed every day This patient was ordinarily sub- severe headache, dull countenance, epistaxis very ject to nose bleed once in a week or ten days, but slight, abdominal distension and tenderness, bowels constipated, eruption appeared distinctly one week after first observation Patient was at times slightly delirious Temperature declined to normal on twelfth I might multiply cases did time allow day

The objection will doubtless be raised that the leading hospitals have tested and discarded as useless the abortive treatment of typhoid fever To this

two replies at once suggest themselves

That typhoid patients are rarely received into a hospital till the disease has passed beyond the period best adapted to an abortive plan of treatment

2 That the methods thus far tried have lacked what I believe to be a most essential factor, viz. the

large antiseptic and astringent enemata

I can hardly close without commending the treatment as remarkably effective in the irregular forms of fever, dependent, as doubtless many of them are, upon germs and resulting ptomaines What I would upon germs and resulting ptomaines specially urge is not the use of sod salicylate by the mouth, or of borax and chamomile by enema, or of creasote vapor for inhalation, but of some efficient antiseptic by all these methods

The statements of Drs Peabody and White lead me to think it not unlikely that later trial of naphthaline and sulphurous acid may change the estimates of their value, derived from a few cases in my own ex-

Permanent reduction of typhoid temperature to normal in 24 to 48 hours, which they report, I have not yet seen in well-marked cases by the use of sod salicylat It is most earnestly to be hoped that these gentlemen will give us more detailed accounts of their methods and results

What agent or agents will prove best can be shown only by long-continued and most careful tests That the results already reached put upon us all the duty of aiding in the settlement of the question, is a con-

viction that, individually, I cannot escape

Wilson states that "typhoid fever destroys more lives that could be saved than any other acute disease We that accept the abortive treatment of the disease, as he does not, repeat the statement with an added and sad emphasis, and find ourselves urgently impelled to persuade all to test a measure in our thought so full of promise No problem more occupies the thought of the profession to day, none so busies its laboratories with earnest research, none give such promise of yielding for us better therapeutic resources and for our patients a more certain recov-

It behooves us to take a part in the movementat least to study closely its results and if possible to

contribute to them

I append an instructive letter from Dr Horace C White, and would also refer the reader to Dr Peabody's statement of his own and his friend's experience, as given in the published proceedings of the Association of American Physicians

Ehrlich's urine test is admirably stated by Dr A

Jacobi, in the same transactions

Dear Dector -In answer to your request for a statement of The British Medical Journal, of Dec 3, 1870, contained an Germany, which for many months has called forth my experience in the abortive treatment of typhoid fever by the use of sulphurous acid, I am obliged to write only a hasty reply

article on the administration of sulphurous acid in typhoid fever, by G Wilks, of Ashford, Kent, in which after giving his experience in its use he says "I will state distinctly what I claim for the sulphurous acid in typhoid fever, that it arrests the fur ther development of the fever poison, and by continuing this arrest long enough, exterminates the fever Briefly, it is an antidote '

In 1871, I began the use of this remedy when practicing in Maine, in a locality where typhoid was prevalent and severe My expectation was more than realized, and my results would justify the claims of Dr Wilks, in nearly every case. I have continued to use it for the past 16 or 17 years and have lost none

of my confidence in it

Since my removal to the suburbs of Boston where we have much less typhoid fever, I have used it very extensively in car latina, diphtheria and kindred diseases, with equally good results. In fact, there is no remedy that I feel more confidence in pre scribing than this It has never failed me in but one case of scarlatina, and I lost no confidence in the remedy in that case, as the child was already in articulo mertis when I was called It has never failed me in diptheria, except in a very few cases which were complicated with croup, or in other words, where the membrane was located far down the trachea

I know these are strong statements, but I think I have used the medicine long enough (nearly 17 years) to have been able to have eliminated the enthusiasm which attaches itself to a new

And now allow me to answer the question Why is not the sulphurous acid as potent a remedy in the hands of others as it has been in mine? The answer to this question is not difficult 1st A misconception of what the medicine is What is labeled sulphurous acid, is a solution of sulphurous acid gas in water Being chemically SO₂, it is often supposed to change to sulphuric acid SO₃, by exposure This is not so In fact, it is difficult to change SO₂ to SO₃, but when left in a partly filled, or not sealed bottle, the gas escapes, leaving an almost mert substance As a consequence, prescriptions are seldom filled with the medi cine of proper strength, unless the druggist is accustomed to its use. I have had no small amount of trouble on this account even with those we generally consider very reliable druggists. In fact, I seldom get the medicine of proper strength on prescrip

tion until the druggist has been labored with 2d My confidence in the remedy and in its safety leads me to prescribe it freely and also to disinfect the rooms at least wice a day with the gas by burning sulphur, believing that if the germs of disease can be destroyed by fumigation, as has been the practice for many years, that the air can be kept free from

germs or sterilized by frequent use of the gas

But I am wandering from the subject In typhoid fever, when called early, I expect a decided remission of the fever in from 24 to 48 hours, and the fever is kept a very mild type if not completely aborted ever after I give it mixed with syrup and diluted with water, also by inhalation I will close this hastily written letter by quoting the close. written letter by quoting the closing words of Dr Wilks' paper "Very possibly, I have failed to convince you of the advantages of the plain of using this drug, but let me again remind you of the plain fact that of 173 cases of this fever occurring in our practice dur ing the past fourteen months, two only died, and those two did not take the acid, for the one it was not prescribed, the other was a drunkard and would take nothing Of the 171 who took sulphurous acid not one lost his life, and there were few who were not convalescent within fifteen days of commencing the treatment Surely such a result will induce you to try the midi cine for yourselves when opportunity offers

Very sincerely yours, HORACE C WHITE

THE CASE OF THE EMPEROR OF GERMANY Expediency in Diagnosis-Would it Legitimately Guide the Treatment?

BY HENRY FRASER CAMPBELL, MD, OF AUGUSTA, GA

The momentous case of Frederick, Emperor of

the tender sympathy and inspired the fervent prayers of benevolent hearts throughout the civilized world, recalls to mind one in my own experience, and I am taken at the time

The principal interest and turning point in this case rested, as will be seen, upon a change of diagnosis accepted in despair, to replace a verdict which, though based upon apparently the most reliable data attendants unhappily away from the course of medi-The measure of recation imperatively demanded jecting the more rational view because hopeless, and of being guided in treatment by a questionable one on account of its bright promise of a happy result, would hardly be acceptable as to its logic, but such 'perversity in diagnosis" may sometimes be regarded and consequently from the measures of treatment as expedient in practice

two of my colleagues, both distinguished for their accuracy in diagnosis and long known as teachers of pathology, Mr D H W, aged 30 years I found the patient in a condition of great emaciation and feebleness from deficient nutrition, being unable to take adequate food on account of the distress at all efforts at deglutition Aphonia was complete could with difficulty express himself in whispers

The cutaneous surface was free from maculæ and from all eruptive or other morbid manifestations of any kind, nor had there appeared any cutaneous affection at any period in the history of the case He was free from nausea, and the digestive organs were apparently otherwise intact under the digestion of fluid nutriment His sleep was often interfered with by uritative cough resulting in an expectoration which was purulent in character His respiration was oppressed, and the attacks of dyspnœa had recently become more alarming and frequent

Exploration of the fauces discovered a reddened and tumid condition of the pharyngeal walls with enlarged and prominent follicles, and here and there small patches of superficial ulceration covered with

a thin deposit of grayish matter

At the time of the conference the condition of the patient generally and the extreme irritability of the fauces, precluded the use of the laryngoscope, but previous examinations with this instrument were reported to have revealed tumefaction of the glottis with narrowing of the rima and a thickened and stiffened condition of the vocal cords—no tuberose enlargements in the submaxillary space or in any other part of the cervical region

For nearly a year past this young man had been subject to soreness and discomfort of the throat, with cough and increasing hoarseness He was free from

fever at the time of this examination

At the time of the conference the patient had but recently returned from a health resort, where systematic treatment had been interrupted This treat

of the pharyngeal wall had been brushed with a mild solution of bichloride of mercury

While in attendance upon another member of the moved to report its incidents from notes accurately family, this case had been confidently reported to me as one of "cancer of the throat" It was further stated that this was the diagnosis of the attending physicians, and that their prognosis was entirely unfavorable

From the fact that no nistory of syphilis could be and rational conclusions, had still served to lead the developed in connection with this case, and also from the exemplary character of the patient as well as from the unquestionable sincerity and candor of his statements, taken in connection with the somewhat aberrant and unusual assemblage and order of symptoms, the two eminent gentlemen in attendance had entirely excluded syphilis from the diagnosis,

I was asked, "Upon what grounds do you propose In 1874 I was called to visit in consultation with constitutional treatment in the present case?" replied, "Certainly not upon a well assured diagnosis of syphilis, but a different diagnosis, whether of scrofula or cancer, condemns him to despair now, and to death in a few months—on the other hand to admit the suspicion of syphilis as an element in the etiology, opens to him light and hope and a possi-He bility of restoration to health and a vigorous manhood" My diagnosis was but little more than a doubt of the expressed opinion of the attending physicians—I simply proposed to give the patient the benefit of that doubt as his sole chance of life

> I was courteously requested to formulate such measures of systematic treatment as I thought proper to propose Without accepting formal charge of the patient, I suggested the following treatment

B,	Ferri et potassa tart Syrupi m	Zv1 Zv11j
R	Potass. iodidi Elixir simplicis (vel aquæ)	Zvi Zviij

Take one or two teaspoonfulls from each vial three times a day in half a glass of water, before or after meals.

It was recommended that the mixture be taken through a glass tube, to avoid staining the teeth. The following was also recommended

Potassu chlorat Aquæ destill ng S Use as : Use as a gargle frequently during the day

Such fluid nourishment as could be ingested was to be taken freely In case of failure of deglutition, particular directions were given for supporting the elevations within the laryn were reported as the patient by rectal nutrition, if necessary, the mediresult of this exploration. There were no glandular cines were to be administered by the same process A mild mercurial course was advised to be combined, somewhat later, with the above modification of the todide element of what is known as "the mixed treatment" for constitutional syphilis

Ricord has been quoted as saying of tartrate of iron and potassa, that it is the sworn enemy of phag-I have found it for thirty years the sworn enemy of the suppurative process as well, under certain conditions, and during that entire period I have ment formerly consisted in codhiver-oil, tonics, and seldom prescribed iodide of potassium in certain nourishing fluid diet constitutionally, and locally by forms of constitutional syphilis without combining it astringent and alterative gargles—the affected surface with this particular one of the ferric salts. It is to

this combination I refer when I speak of a modifica-lities contributing to the establishment of the diagnosis tion of the mixed treatment

Not recognizing at the time of the consultation in the mind of the enlightened physician, or even in that this patient had been formally relinquished into the estimation of intelligent communities, the exist my hands for treatment, I did not see him for over ence of constitutional syphilis, even in its most indu twenty days from the time of my first visit time I received a note from the patient, informing an aspersion of the virtue or morality of the individual me that he was better, and desired to know if I wished so affected any change in the medicines, as he had finished that

prepared by the first prescription

at all favorable had followed in so short a time as the pipe, the drinking cup-whether in times of peace result of medication in a case apparently so nearly upon the great highways of travel, or during war in hopeless, I at once went to see the patient I certainly was not prepared for the marvellous improve-His complexion was greatly improved, he had evidently gained flesh, had entirely recovered his voice, and was cheerful and even sprightly in his He stated that his appetite was good, and that for the past five or six days he had been able to take solid food with little or no discomfort cough and expectoration had greatly abated, and on examination of the fauces the ulcerations were found to be greatly diminished, and had assumed a more healthful appearance, while the prominent and tumid follicles had regained nearly their natural appearance The former prescription was renewed, and at a sub sequent period the iodide of potassium and tartrate of iron mixture was reduced to two doses a daymorning and noon-while there was added to the treatment 1/6 of a grain of protiodide of mercury, to be taken at bedtime

It is not my design to detail the subsequent history of this anomalous case of syphilis, nor that of many others of a clearly recognizable character affecting the air passages, under my observation and within my experience. For ten years after the date within my experience of treatment he was in robust physical health, nor has there appeared at any time the slightest manifestation of the disease of the larynx or fauces

With all our illumination on the nature of constitutional syphilis and the rules established for its indisputable recognition as well as curative treatment, there still remain many abnormal and obscure conditions, of which almost every practitioner of extended observation or protracted experience can readily recall one or more instances The entire absence of history, either in heredity or in direct acquirement, the unimpeachable and immaculate character of the patient, together with the irregular and aberrant presentation of symptoms, all combine to add to the obscurity and inscrutableness of the complex phe-

Who cases so obscured, it is well known that system-who treatment based on suspicion has come to be bracognized as a legitimate means of arriving at a coren ct and assured diagnosis

Asso, the case above summarily reported, this device Ehrlichage of a difficult, and withal a misleading, Jacobi, in the _was all that was left upon which to mosis or a fragment of hope for the

Dear Dector -In answ my experience in the abort use of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generuse of sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity of character is generused or sulphurous acid, I ammpurity or sulphu

in syphilis, we may say that the time is long past when At this bitable manifestations, can be regarded as necessarily

Besides impure sexual relations and heredity, how varied and multitudinous are the methods and ave Greatly gratified at the intelligence that anything nues of its transmission The cigar, the smoking the emergencies of the field or in camps, often must become the common chalice of refreshment for offi cer and common soldier, from the lowest to the high est in rank These are some of the means, reasonable and probable, by which inoculation of syphilitic stom atitis may infect the entire system of the thirsty and the unwary

It would scarcely be considered legitimate to accept or to deny any of the varying opinions as to the exact nature of the disease expressed by the attendants of the Emperor, all of the highest rank as specialists and diagnosticians, these have been made public through authentic bulletins cancer, scrofula, perichondritis, have each had their turn in occupying the minds of all who read and contemplate these announcements of his constantly varying condition All agree upon the saddening recognition of his imminent danger, if not of his near and rapidly progressive approach to Besides the natural advance of the diseasewhether scrofula, cancer or syphilis-death may come to him suddenly, by the rupture of an abscess into the trachea, or by some unavoidable accident attend ing even the most skilful removal and replacement Progressive improvement seems little of the tube thought of in his present condition, a reprieve of a few days gives temporary hope, which in its turn is dashed by the recurrence of abscesses, fever, and in tense alarm

It is in this condition of the sufferer upon whom all eyes are turned, and at whose restoration all would rejoice, that I have ventured at this time to discuss that which is perhaps as yet not a fully accepted pol This I have de icy in the guidance to treatment scribed in connection with the case above reported and also illustrating this principle Expediency in di agnosis—that is, to select from the several theories of the disease that which is most hopeful, and allow this diagnosis—perversely, if you please, even though not the most logical—to become the guide to treatment

Cancer is incurable, scrofula in such advanced condition is also incurable, syphilis, even in its most deplorable advance, is often amenable to treatment, and complete restoration possible Then why not let expediency guide the treatment? This, then, I would explain, is what is meant by expediency in diagnosis

April 28, 1888

MEDICAL PROGRESS.

CEREBRAL SYMPTOMS OF PNEUMONIA IN CHIL-DREN -DR L EMMETT HOLT read a paper before the Medical Society of the County of New York on March 26, in which he drew the following conclusions

r Cerebral symptoms in the pneumonia of children were very common 2 Convulsions belonged almost without exception to infancy, being rarely Occurring at the met with after the age of 2 years onset, they belonged essentially to lobar pneumonia, they did not indicate a bad prognosis, nor even in most cases a severe attack When late convulsions came on, death within twenty-four hours might confidently be predicted 3 Delirium came oftenest between the ages of 5 and 8, usually in conjunction with extensive disease and high temperature These cases, although severe, with but few exceptions ended in recovery 4 There was no such intimate associas had been frequently stated Such symptoms occurred in only about one fifth of the apex cases Nervous symptoms occurred much more frequently when the disease was extensive and the temperature very high He emphasized two points in treatment First, that in the hyperpyrevia of pneumonia the cold pack was a safe and the most efficient means of reducing the temperature Second, the use of antipy-rin to allay restlessness, quiet delirium and cough, and promote sleep Doses of 2 or 3 grs were sufficient in an infant of from 6 to 9 months. It might be repeated every six or eight hours

DR ANDREW H SMITH thought, with regard to the immediate cause of the cerebral symptoms in pneumonia, that the cases might be divided into three I Those in which the cerebral symptoms were brought about by the direct influence of the pneumonic poison 2 Those in which they resulted from high temperature from high temperature 3 Those in which they resulted from exhaustion He regarded lobar pneumonia as an infectious disease, and as likely to be ushered in by cerebral symptoms, like other infectious diseases The convulsion in children corres ponded to the chill in adults There might be apparently broncho-pneumonia, yet associated with it might be isolated spots of the croupous variety Convulsions were in some instances associated with He was inclined to ascribe delirium in most cases to high temperature Then there was a group of cerebral symptoms more or less of a typhoid character which occurred in the later stage, and were the result of exhaustion He thought kidney complications might cause cerebral symptoms in some Gastro-intestinal disturbances also produced their share of cerebral symptoms He agreed with doses of antipyrin in subduing restlessness and insomnia. N Y Med Jour , May 26, 1888

SALICYLATE OF SODIUM IN TONSILLITIS -MR

profession I myself have used it for eight years, and I certainly must have seen reports of cases so treated in the medical literature of the day, before so There can be no doubt of its efficacy in preventing an attack of quinsy from running its usual I have treated more than a hundred cases with it, and in the great majority speedy resolution has taken place, in most of those cases which went on to suppuration the remedy had either not been given early enough, or the doses had not been large enough, nor given with sufficient frequency—a most important point where salicylate of sodium is employed, whether in acute rheumatism or tonsillitis In incipient cases, and especially those occurring in gouty or rheumatic habits, this drug acts like a charm I give to an adult from 10 to 20 grains every two hours, or 10 grains every hour until relief is afforded, aud then the dose is gradually reduced I eschew all astringent gargles, and direct the patient to use hot milk and water ones, or when the breath is very ation between cerebral symptoms and apex disease feetid, warm gargles of permanganate of potassium, or hyposulphite of sodium In cases where the patient has had several attacks of the disease, small doses do no good at all, and even large ones sometimes fail Nearly all my failures have been in this class of cases

A few years ago the attention of the profession was called to the wonderfully successful results obtained by treating tonsillitis with bicarbonate of sodium, in doses of from 10 to 20 grains every two or three hours I have been trying it in some of those cases where the salicylate has failed, and although I have no extended knowledge of its effects, I feel justified in saying that it appears equal to the latter in subduing the inflammatory action, and preventing suppuration, besides being free from the tendency of salicylate of sodium to produce tinnitus, In the case of a gentleman vertigo, and deafness aged 34 years, who told me he "had spent the last six years of his life in getting quinsy and getting rid of it," and in whose case the salicylate had failed, I advised him to take 10 grains of the bicarbonate every hour as soon as he felt an attack impending, with the result that several have been rendered abortive -Practitioner, May, 1888

Intrapleural Injections of Sterilized Air in THE TREATMENT OF PNEUMO-THORAX -Much interest has been aroused over the presentation by Pro-FESSOR POTAIN, before the Academie de Médicine, of a patient whom he had cured of pneumo thorax by the injection of sterilized air Such a statement seems at first paradoxical, but an account of the case The patient, 23 years of age, suffering explains it from incipient phthisis, was suddenly attacked with fever, which lasted fourteen days and was accom-Dr Holt regarding the beneficial effects of small panied with extensive pleuritic effusion, accompanied, at first, with air in the pleural cavity As the effusion increased the lung became compressed, and the opening connecting it with the pleura was closed The effusion finally reached the fossa supraspinata, Chas Grabham, says until recently I was not aware and the patient's condition called for interference that the virtues of this salt in this painful and ob- If the effusion were withdrawn, however, it was scure disease were not more generally known to the thought probable that the connection with the lung

would be opened, and the pneumo-thorax would reappear Professor Potain therefore devised an apparatus, in the shape of a double cannula connected twenty minutes with a manometer, by which, as fast as the liquid was successful, was repeated on five subsequent occasions sterilized by being passed through cotton and then through a strong solution of carbolic acid the next three months the fluid, which was slightly after the others purulent from the first, was withdrawn twice more The amounts removed were 1 400, 1,600, and 500 cubic centimetres The patient gradually improved, his original pueumo-thorax did not return, and even his tuberculous symptoms disappeared, so that he was discharged cured Two other cases were treated in a similar manner, one being cured and the other improved.

Professor Potain thinks that his results quite justify him in recommending this new procedure in appro-It allows one safely to remove a large priate cases amount of liquid from the pleural cavity, and thus obviate the danger of repeated evacuations and of producing congestion and rupture of the lungs from sudden expansion

The prognosis of pneumo-thorax ordinarily is very bad Among 46 cases of tuberculous origin collected by Professor West, of Heidelberg, 44 died and 2 were cured Among 11 previous cases of this disease observed by Potain, 8 died and 3 were cured-Medical Record, May 26, 1888.

PECULIAR EFFECTS FROM A BELLADONNA PLASTER DR J E HORN reports, in the Cincinnati Lancet-Clinic, the following results from a belladonna plaster which was applied for the relief of the soreness resulting from a severe contusion "It was on about thirty hours, and because of the burning it produced the patient removed it, and a vesicated spot the size of the plaster was visible Two days later I was called in and given a good scolding On looking at the arm I was actually frightened, the denuded surface was of a deep, angry red, and a scarlet hue extending from its edges in every direction was swollen all the skin would hold from shoulder to elbow, even extending to the fingers and hand, but not so great below the elbow In fact, I had an extensive inflammation almost resembling erysipelas The patient complained of dryness of the throat, and had double vision The inflammation remained about one thing for three days, and then began to gradually subside I have known belladonna plasters to irritate, but never saw anything like this, even when a vesicant had been applied '

COCAINE IN LITHOTRITY -In a case in which an attempt to perform lithotrity proved futile on account of the extreme urntability of the bladder and the prostrate condition of the patient, Dr Phélip injected into the bladder 16 grs of cocaine dissolved in 12 fluid ozs of water at a suitable temperature After a few minutes, during which the patient was moved into different positions to insure the anæsthetic coming into contact with all parts of the wall of the bladder, it was found possible to proceed The patient felt no pain whatever, and the surgeon

was enabled to do his work quietly and completely. The anæsthetic condition of the bladder lasted about The air was with the same happy result It was noticed, however, that the effect produced by the last two injec-During tions was less marked and did not last as long as No untoward symptoms followed at any time, but it is recommended to adapt the dose of the drug to the degree of vesical irritation, and never to use the higher strength before trying the effect of a weaker one -British Medical Journal, May 5, 1888

> Intravascular Injections in Collapse—Dr DIARKONOFF has made a number of experiments on ten healthy dogs with a view of testing the effect of an intravascular injection of common salt, to which a little alkalı has been added, on a collapsed condition of the organism In order to induce collapse, chloroform was administered, and when the animal had shown signs of being in a more or less dangerous condition a small quantity of Schwarz's solution (which consists of chloride of sodium 6 grams, caustic soda o o5 gram, in 1000 grams of distilled water) was introduced into the distal end of the femoral artery, or into the proximal end of the femoral vein or the jugular vein A remarkable effect was produced by these injections on the character of the pulse and on the blood pressure In some cases in which the heart appeared to have stopped, contractions were by this means reinduced The effect on the respiration was not so constant, still, this usually improved Of course, when the chloroform was pushed beyond a certain point, saline injections and artificial respiration alike failed — Lancet, April 21, 1888

MALTED FOOD IN INFANTILE DIARRHEA —In the Australian Medical Journal, December, 1887, Dr. CLENDINNEN writes that he has met with considera ble success from the use of malt in the treatment of infantile diarrhœa In a case in a child about three months old, there were passed very large lumps of casein, together with a quantity of green matter. The author ordered the child to be fed upon half a teaspoonful of Kepler's extract of malt added to a pint of milk In forty-eight hours the lumps of casein, together with the green matter in the motions, had disappeared, the child slept well, and the In several other cases this diarrhœa ceased entirely treatment was adopted with complete success Three ways have been suggested for adapting the casein of cow's milk to the requirements of young children (1) peptonization, (2) the addition of barley-water, (3) the use of malt

ANTIHEMORRHAGIC INJECTION -MOUTARD-MAP-TIN advises the following

> Ergotine Glycerine

Inject from 1 to 1 5 grams of this solution

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full name and address, although not necessarily to be published All com munications in regard to editorial work should be addressed to the Editor

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THE "GENIUS OF AMERICAN INSTITUTIONS"

In the telegraphed letter of a contemporary from the meeting of the Association in Cincinnati we "The amendment proposed by DR N S Davis taking executive power from the Association was not acceptable, and is thought not to be in keeping with the character of American institutions" (Medical News) This paragraph is, in the first place, misleading, since the object of the amendment was not to take the executive power from the hands of the Association, but out of the general sessions, and the objection to the amendment that the Association has no desire to abandon the management of its own affairs, is no objection at all

But this article is not for the purpose of discussing that amendment What we wish to know is, what is meant by that stereotyped phrase, "The genius, or spirit, or character of American institutions?" After meeting the phrase a hundred times or more, in the daily papers, in medical journals, in political speeches, in pulpit orations, and in private conversation, with out once getting even a vague idea of its meaning, especially when it is used in senses so apparently contradictory, one naturally becomes a little curious to know the proper usage and meaning of the term

Is it an idiomatic expression, used when one has no other retreat from an argument or a proposition? The daily papers rail at propositions for further centralization of governmental power, at the medical laws and acts, at the creation of boards of health with police power, and at proposed laws for restrain-

the genius of American institutions" Medical journals conducted in the interest of some colleges not too far above the grade of diploma-mills, or by editors that have thread-bare professional consciences, launch anthemas at attempts at high medical education, and at medical organizations that will not admit irregular practitioners, as being "contrary to the spirit of American institutions" Some time agoa correspondent of a daily paper in this city spoke of the registration of midwives as being "subvertive of the spirit of American institutions" Another Chicago paper speaks of the refusal of reputable physicians to advertise in the lay press as "not in consonance with the character of American liberty and institutions" While, on the one hand, ministers and advocates of the Sunday observance laws have said that the keeping open of saloons on Sunday is "a strike at the character of American freedom and institutions," the saloon men, on the other hand, declare that these laws are "a blow at the very spirit of American institutions"

We have been led to believe that the idea and realization of representation of the whole by a chosen few is a distinctly American institution, and yet we are informed that a proposition for such representation is not acceptable because "it is not in keeping with the character of American institutions" What does the phrase mean? It is a secretion like that of the cuttle-fish, used to befog an argument from which there is no escape Are we to believe that there is some "subtle, occult atmospheric condition" that givestone, and color and character to every thing that originates between Cape Cod and Cape Blanco, and between the Lakes and the Gulf, and that makes the American institutions infinitely superior to any and all others? Is this true in scientific and political American medicine? Is the face "set as a flint" against all improvements and suggestions that have had birth in other lands one of our "American institutions?" "The cobbler, the mule driver, and the hod-carrier may combine their forces and, if they are smart enough to obtain the influence of somepoliticians, get a charter for a medical college, and embark in the profitable business of selling diplomas, which duly registered in our court houses, will enable other cobblers, mule drivers and hod-carriers tofreely distribute, for good cash, the blessings of whatever medical knowledge they may have been able to scrape together" This may be called an "American institution" But, "let medical education alone," says one, "this is a free and democratic country, ing or regulating the adulteration of foods (as do the a man has a right to be educated as he chooses, to manufacturers), and say that they "are contrary to force him to be educated properly is contrary to the

spirit of American institutions" "Let the people take care of their own health," says another, "if a man chooses to have a cess-pool next to his well it is his own business, and other people have no right to interfere. Such interference is subversive of the spirit of American institutions"

Every fight that has been made in this country against a medical practice act, against a board of health, or against laws for the protection of the health of the people, in whatever way, or from whatever sources of danger, has been made on the ground that such acts or laws were unconstitutional, and "contrary to the genius of American institutions". All suggestions and attempts for regulating or restraining the manufacture of patent medicines have been met by the answer. "The manufacturers have the right to engage in that business if they wish, if people choose to poison themselves it is their own look-out. But to restrain or control such manufacture would be contrary to the spirit of American institutions."

After all, then, the phrase seems to amount to this "I know of no argument against your proposition, but I will look wise and say it is not in keeping with the character of American institutions. I myself do not know what those words mean, but they sound as if they were pregnant with unutterable wisdom, and I use them for the sound."

Haste without regard to accuracy seems to be a growing "American institution," if we may judge by the telegraphed reports of the meeting in Cincinnati While those of the profession that do not attend the the meetings of the Association are anxious to know what is done at the meetings, they are not in such a tremor of haste and expectation that they cannot wait No one can possibly object for an accurate report to an accurate report of the business meetings of the Association, but as the matter now is, it usually takes some months to correct the maccuracies of one week's issue of some of our electric contemporaries curacy is neither condoned nor corrected by telegraph wires, notwithstanding the marvelous therapeutic properties of electricity

TOXIC EFFECTS OF ANTIFEBRIN

A correspondent of Comanche, Texas, asks the following questions "How many deaths have been reported from antifebrin? What has been the fatal dose? And what are the toxic symptoms besides depression, collapse, etc?" These questions were prompted by the death of a young lady recently, which was attributed to antifebrin, of which she had

been in the habit of taking 10 gr doses for paroxysms of headache. The symptoms in this case as given by our correspondent were "coma, contraction of the pupils, breathing slow, spasmodic and stertorous, cyanosis, slow and feeble pulse, collapse and death nine hours after the supposed ingestion of the drug". It is further stated that the deceased "was known to have purchased a 2-oz bottle of tinct opin a few days before her death, which was never found," and was also a victim of melancholia

The only case we recollect seeing reported as a death directly from antifebrin was by von Quand, as briefly alluded to in the chapter on Antipyretics in the "Annual of Universal Medical Sciences," just published In this case it is simply stated that the child, age not given, took 4 grs of the antifebrin every two hours all day, at the end of which time it was found in complete collapse, strongly cyanotic, and soon died

The fatal dose for an adult has not been ascer tained From 1 to 2 grams (grs xv to xx) in 24 hours, have been repeatedly given in febrile and neu ralgic affections without toxic effects. When given in larger quantities it has induced cyanosis, increased frequency of respiration, feebleness of pulse, natural or dilated pupils, and marked indications of collapse. Those who have experimented with the drug represent its toxic effects to be similar to those of aniline, from which it is derived. The symptoms of the case mentioned by our correspondent certainly much more perfectly resemble those produced by toxemic doses of opium than any hitherto observed from the use of antifebrin

UNIVERSITY OF MINNESOTA

The Board of Regents of the University of Min nesota has established a Medical Department in con The department is nection with the University It is to be a high grade located at Minneapolis school, embracing the main features of the Medical Department of the Northwestern University, Har vard, the University of Michigan, and the University This action of the Board does not of Pennsylvania increase the number of schools in Minnesota but, upon the contrary, reduces the number nesota Hospital College and the St Paul Medical College have ceased to exist, and a portion of the Faculty of each school are elected to positions in the This action on the part of the Board is new school largely in response to the wishes of the profession of the State for a high-grade school in connection with the University, with a Faculty in sympathy with

with the new Medical Practice Act The Board of Regents very properly appointed a committee con sisting of the President of the State Medical Society, the President of the State Board of Health, the President of the State Board of Medical Examiners, the President of the University, the Dean of the Medical Department, to nominate a Faculty for the new de-The instructions of the committee were to secure the best men at their command C J Bell, of the Johns Hopkins University, is the only Eastern man in the Faculty He is elected to the Professorship of Chemistry The University of Minnesota is very amply endowed in lands and by the State, and by maintaining a high curriculum for its medical department, it will undoubtedly enlist the good wishes and support of the profession of the Northwest

MULTIPLE INCISIONS FOR INDOLENT ULCERS -Harbordt's method of treating indolent ulcers, which has been in use in the St Spiritus Hospital in Frankfort on the-Main for some years, is thus described by DR F SPATH, in Centralbl für Chirurgie, No 14 The whole ulcer is divided lengthwise by a deep incision extending a considerable distance into the healthy tissue, after which cross incisions are made through the callous tissue into the healthy tissue at intervals of about 1 8 cm The incisions should extend through the skin and the subjacent fascia, so that the wounds will gape widely Hæmorrhage, which is sometimes profuse, is controlled by tampons, and the whole wound is dressed with iodoform dressings The dressing is removed in from 8 to 14 days when healthy granulations will be seen springing from the incisions, they soon cover the whole surface, to the level of the surrounding skin, from which there is a rapid growth of new epidermis It is at this stage, when there has been great loss of skin, that transplantation may be effected and will be useful incisions are made after necrotic fragments are removed, and when the ulcer is no longer foul

REFLEX INHIBITORY POWER OF COCAINE—MR
E HURRY FENWICK reports four cases in the Lancet,
of May 5, which show that cocaine is possessed of
considerable reflex inhibitory power. A series of experiments on decapitated frogs showed that when a
20 per cent solution was thrown into the cloaca so
as to inject the bladder and rectum, reflex excitability
was so far diminished that the foot would be retained
in a 2 per cent of sulphuric acid for 20, 30, 60, or
even more seconds, while usually the time is about

oo8 to o15 seconds In a very painful case of myalgic wry-neck a 20 per cent solution (gtt 30) thrown into the urethra caused a diminution of the crampand stiffness in 40 seconds, and in 60 seconds complete relief, which lasted for some hours Mr Fenwick reports also a case of facial neuralgia and flying pains, and one of burning pain in the glans penis and legs relieved by cocaine thus applied Such applications have, however, no power over strong stimuli, corresponding to the pain of carcinoma, inflammation, etc

PHENACETIN IN PYREYIA —MR H GRENFELL calls attention, in the Practitioner, May, 1888, to the use of phenacetin—para-acetphenitidin, the ethylic ether of paramidophenol—in the treatment of pyrevia This drug is a slightly reddish, inodorous and tasteless powder, but slightly soluble in water, more so in glycerine, and readily soluble in hot alcohol It is insoluble in alkalies and acids (except glacial acetic acid It is most conveniently administered in capsules The cases, with charts, reported by Mr Grenfell, show that phenacetidin is an undoubted antipyretic In cases of pyrexia the action of the drug is seen within half an hour after adminis-The patient generally perspires freely, and feels drowsy, often falling asleep The best dose for an adult seems to be about eight grains bear the drug well It is also a satisfactory analgesic ın neuralgıa

EDITORIAL NOTES

THE STATE MEDICAL SOCIETY OF WISCONSIN will hold its forty-second annual meeting in the Court House, Milwaukee, convening at 8 o'clock PM of Tuesday, June 5, 1888, with a full and interesting programme of work before it L G Armstrong M D, Boscobel, President, J T Reeves, M D, Appleton, Secretary

THE OHIO STATE MEDICAL SOCIETY will hold its forty-third annual meeting at Columbus, O, June 13, 14 and 15, 1888 The programme gives promise of an interesting and profitable meeting President, Samuel F Forbes, Toledo, and Secretary, G A. Collamore, Toledo, O

THE MISSISSIPPI VALLEY MEDICAL ASSOCIATION will hold its next annual meeting at St Louis, commencing September 11, 1888, and continue three days

We regret to learn of the illness, from perityphlitis, of Dr. Frank P Foster, editor of the New York Medical Journal

SOCIETY PROCEEDINGS.

AMERICAN MEDICAL ASSOCIATION.

THIRTY-NINTH ANNUAL MEETING

The Thirty-Ninth Annual Meeting assembled at Central Music Hall, Cincinnati, O, May 8, 1888

DR W W DAWSON, Chairman of Committee of Arrangements, called the Association to order and introduced Rev R A Gibson, who offered a prayer

The President, Dr A Y P GARNETT, of D C, took the chair, supported by the Vice-Presidents, Drs Duncan Eve, Tenn, D Colvin, NY, CJ O'Hagan, NC, and A Stedman, Col The Permanent Secretary, Dr Wm B Atkinson, Pa., and the Assistant Secretary, Dr Jos Ransohoff, were at their posts The Treasurer, Dr R J Dunglison, Pa, and the Librarian, Dr C H A Kleinschmidt, Ex-Presidents Drs L A Sayre, N were present Y, N S Davis, Ill, T G Richardson, La, and Jos M Toner, D C, occupied seats on the platform HON AMOR SMITH, Mayor of Cincinnati, made an

ADDRESS OF WELCOME

on behalf of the citizens DR C G CONEGYS then delivered the following ADDRESS OF WELCOME

on the part of the profession

On the part of the medical profession of this city I am happy to welcome you to Cincinnati, and to assure you that we, with all of the citizens, feel greatly honored that you have selected this, the most central city of the Nation, for this annual congress Twice before, to-wit in 1850 and in 1867, the Association has held its annual councils here, and your professional brethren and the people cordially united to make those occasions encouraging and profitable It is sad to feel that a majority of those who then assembled, and of those who greeted you have passed away, but it is evident from the numbers, the freshness and manly vigor seen on every side, that the genius and spirit still live-yea, are augmented and fully competent to carry forward the great purposes

of your predecessors These large assemblies of medical men, in increasing numbers every year, prove indubitably that the value of the Association is no longer a question To say nothing of the scientific discussions involved, it is clear that the associations of the Association It is, certainly, a give immense satisfaction to all great pleasure for men, who are engaged in common duties and modes of life in widely separated areas, to be thus brought together for the establishment of acquaintanceships that promote community of action for a higher performance of their beneficent work It is a wonderful sight to beamong the people hold so large a body of cultured men who are striving, always and everywhere, to enlarge public happiness by investigations for the prevention of those causes and agencies that undermine the public health and welfare, when, if complete success should crown

their lofty aims, the remunerative part of their labors would be about extinguished, yet, in all ages (and never as much so as now) the medical profession is unceasing in its labors to trace devastating epidemics to their lair, to avert the processions of infectious diseases, to isolate those who are suffering therewith, to disinfect localities, to point out the most healthful modes of living-in regard to light and air, the punty and abundance of water supply, the evils of adult erated food, the overtasking of labor, the prevention of ill-assorted and consanguineous marriages, the abuses of the brain, and the suppression of those two giant evils of civilization-intemperance and prostitution

This period of your assembly is one of extra ordinary interest to our people, for this is the centen nial year of the settlement of Cincinnati, and you can see by the vast structures in Washington Park and in the rear of this building the extraordinary preparations for its magnificent celebration It is an heroic age and a glorious race which we wish to com We wish to crown their deeds with memorate praise and their memory with gratitude, to recount their hardihood, labor, self denial, and piety, and to remind their descendants, who occupy the fields of their conquest, of their sublime patriotism, and to excite them to emulate their courage, their toil and their public virtue

Allow me then, briefly, to dwell on that periodmore especially on the character of a medical mind that pervaded that time as one of those "immortal men who live again in lives made better by his presence "

One hundred years ago a small body of adventur ous men, with their families, descended the beautiful Ohio and landed their rudely constructed barges on The State of Virginia, with great noble the shore ness of soul, had ceded the vast Northwestern Tem tory to the General Government, and Congress had enacted that it should be a land of unqualified free The richness of the soil and the cheapness of the lands led citizens of the East to seek new homes The colony that landed here was ın western wılds not large, their whole possessions occupied but a small number of flat boats or barges It seemed to be a stupendous undertaking thus to plant themselves in the primeval forest on this wild coast, with no means of immediate sustentation but the stores in their barges and what they might hunt in the wilder There were no grounds open for any culture and the forest was roamed by wild beasts and more savage and hostile men

But this forlorn hope of civilization were men of no common mold They brought with them courage, culture, and integrity, and were full of the high aims of the Eastern people who had just fought for their independence and secured the vast British posses sions south of the Canada line They were imbued with the loftiest motives that can animate the soul, and fearing nothing but God, they confronted the wilderness and its warlike denizens with that daunt less courage which renders individuals and com munities, when their cause is just, unconquerable

They constructed their cabins and block houses,

organized a military band, established a school, and and his soul loved nature rived, possessed of various trades and implements servation with the fervor of deepest passion velopment of crops of grains and fruits post was established, a Territorial Governor came out, a county was organized, a seat of justice created, and the foundations of a State were displayed their condition of peace and hope was soon blasted The terrible defeat and massacre of the army of St Clair, in 1791, struck terror to the settlers savages were more belligerent and daring than ever before, and general consternation prevailed

The Eastern people became aroused to the necessity of protecting the pioneers President Washington to conquer a peace He arrived with all the troops heart he could gather in the summer of 1793, and camped

on the western side of this city

The losses of the western settlements had been so large by the defeat of St Clair that the forces of General Wayne were insufficient for the proposed Delay followed delay, but at last the reinforcements came The settlers south of the Ohio at length freely offered themselves for the war

Nearly a century has passed, but the descendants of the pioneers shall never cease to commemorate the joyful time, when, with bugle notes and flying banners, 2000 mounted riflemen from Kentucky, led by Governor Shelby, crossed the Ohio and joined the camp of Wayne This was a sure presage of the victory which he gained, and which broke the savage power forever Wayne's success brought peace to the Ohio valley, all terror of the savages subsided, and an immense immigration from the East and South set in Cincinnati felt the influx commerce and manufacture began to flourish, and great public spirit emerged, so that in a few years she became the higher learning There was no lack of cultivated people, indeed, in the pulpit and at the bar, and in medicine, there were men possessed of acknowledged ability and collegiate training, and several of them had a national reputation, but there was no master mind who, as a leader, could bring into combined action all the needs and desires of a growing and refined community for the establishment of institutions for instruction in higher learning

In the meanwhile, however, there was growing to manhood, in the wilds of Kentucky, one whose soul had caught the spirit of the times, and who, at length, came to Cincinnati with the largest desires to take his part in her future welfare He had been nurtured amid all the deprivations, hardships and perils of the wilderness, and his faculties had been

From his earliest conbuilt a rude church Then they passed a long and sciousness he had drunk in all her wild and beautiful severe winter, but in the spring new colonists ar-| forms, and it had kindled his natural powers of obfor a better construction of tenements and the de- a mind, so full of enthusiasm for knowledge in Na-So they ture's arcana, coull not remain in the dull, routine gradually multiplied, felled the forest, opened fields, life of the planter It was happily directed towards and the hamlet gradually became a village, and that medicine, and Daniel Drake came to this city in the expanded to a town Meanwhile a strong military first year of the century and apprenticed himself to Dr Goforth as his office student and apothecary His opportunity for formal instruction in books had been very limited, but this lack of opportunity was greatly compensated by his habits-so thoroughly acquired—of observation, comparison, and medita-After a patient and methodic service of six years, in which he had made himself familiar with the text book, he felt that he must go to the famous school of the East where Rush, Physic and Wistar taught With scanty means he completed his long commissioned General Wayne to form a new army journey on horseback and gratified the wish of his

> On his return, with enlarged views of culture, he entered busily into practice and rose rapidly in the public estimation Besides medicine, he investigated at large subjects in natural history and physics, also studies of the aborigines and the monuments that marked their residence in our valleys. He wrote also descriptions of the rising City, the Miami val-These writings, leys and their prospective wealth particularly the scientific ones, attracted wide attention, so that when at a later period he returned to Philadelphia to attain his degree he was received by the faculty of the University and the distinguished

society of Philadelphia as a savant

To the south of us then, in Kentucky, lay another flourishing frontier town of nearly equal population with Cincinnati It was not only distinguished for the heroic patriotism of its people, but also for their high social culture and the organization of the Transylvania University Lexington first held aloft the torch of science in this wild world, and was recognized as the Athens of the West There, under the most busy and progressive town of the frontiers auspices of B W Dudley, in 1817, the first medical But the town was without any institutions of school in the West was organized, and Drake was elected one of the professors Dudley and Drake were of the same age, and both Kentuckians first met as students in Philadelphia Dudley graduated in that year-1806-and four years later went to France, joined the French army as junior surgeon and served on Lavey's staff in many battles, ending, I believe, at Waterloo Drake returned home to gain the means to go back to the University and obtain his degree, which he accomplished in 1816

Thus these two great and ardent minds were again united, and with their associates, Caldwell and Richardson, soon developed a flourishing medical department in the University But neither Drake's residence and happy associations in Philadelphia, nor his success as a teacher in Lexington, could divert his thoughts and hopes from his beloved Cincinnati, precociously developed by all those struggles with indeed, it only kindled within him an inappeasable dense forests, ferocious beasts and savage men that zeal to return to devote his life to the erection of the pioneers must encounter and subdue. His young great schools in the arts and sciences life was passed in the wild solitudes of the forests, signed, after delivering two courses of lectures, and consecrated himself to his great purpose He spared God, he who seeks God out of and apart from rea He spent a winter at the nothing to accomplish it State capital and secured charters for the Cincinnati College, the Medical College of Ohio, and the Cincinnati Hospital as a place for the demonstration of clinical and pathological medicine His ambition was not only to be successful as a practitioner and teacher, but an active-minded, useful citizen as well, and he gave much thought to all propositions that would promote the general welfare He soon comprehended that the traffic and commerce connected with the river were inadequate to the building of the Drake will shine as a star of light forevermore great city of his prophecy He saw, the first, I believe, the utility and practicability of a canal to connect the river with Lake Erie, and at a later period, when railroads attracted attention, the immense importance of connecting the city with the great South by a railroad to Charleston, and he earnestly pressed his projects by his writings and public addresses Both of these great schemes of internal commerce are now in operation and have proved of value to Nothing seemed to escape him for the adornment of the city and the comfort of the people The line of elm trees on the south side of Washington Park were planted under his own direction over hope that you will take a general view of its topo sixty years ago

He was a voluminous writer on professional and general topics, but the work with which he crowned his life's labor was his "Systematic Treatise of the Diseases of the Interior Valley of North America," to which he devoted more than twenty years of travel throughout the vast Mississippi Valley It was, so to speak, "dug out of the very elements of the continent and society of America" It is a great work of absolutely original research in medical topography, and will always remain a monument to his fame that has no parallel in the science and literature of

medicine

Though Drake has long been dead, yet all of his great undertakings remain and are flourishing Cincinnati College is the large Law school of the Ohio Valley, the Medical College of Ohio, now a Medical Department of the University of Cincinnati, was never so prosperous, the Clinical and Pathological School of the Hospital is attended by 400 It has a large and growing library and students museum, and is now undertaking to establish a pathological laboratory for original research beautiful elm trees are now as verdant as ever

The wonderful activity of Drake's mind, which led him to undertake the most severe professional labors and throw himself besides into every struggle for the advancement of the interests of society, is readily explained when we consider the philosophic spirit which animated his mind, for he was possessed of that gift of genius which sees beyond all the apparent disparity of phenomena, that severe unity, after which all true philosophy is continually aspiring

To him the universe was not a summation of material phenomena conveying sensuous impressions merely, but a revelation His was a reverent and that "he who seeks in nature, nature only, and not Ark, P O Hooper, Cal, H S Orme, Conn, W. reason, he who seeks in reason, reason only, and not C Wile, Dak, J D McConnell, D C, D W C.

son, or reason out of and apart from God, will find neither nature nor reason, nor God, but will assuredly lose them all "

All the institutions he planted exhibit his great powers of mind and will always preserve his memory fresh and venerated in the great Western Valley In the medical firmament bending over the world, reaching from the past and stretching indefinitely away amidst all the glittering galaxy and burning orbs that represent the immortal dead, the orb of

In Cincinnati his great example and precepts have continued to affect its inedical life. I think it my duty to say to the members of the American Medical Association that a spirit of original research has been carried forward here, and in a period of forty years of professional life in this city I have never known so many young men of thorough training in our own schools, and supplemented by severe study in the clinical and pathological schools of Great Britain and the Continent, as are now among our active practitioners

A few last words about our city at large We It is very peculiar and striking graphical situation If you will ascend our hills you will find that they are built of those stratified sedimentary masses that Between all belong to the lower silurian epoch these layers quantities of marine shells are found that prove that they formed the bottom of a great salt sea

Vice-President Dr Duncan Eve, of Tenn, pre sided while THE PRESIDENT delivered the Annual Address (See p 573, THE JOURNAL May 12) On motion, the Address was referred to the Editor of THE JOURNAL for publication, with the thanks of the Association

As some of the Sections have Dr N S Davis more papers than can be disposed of in the afternoon hours, they ask permission of the Association to meet for Section work at 11 o'clock in the morning, so that they may have a morning as well as an afternoon ses sion, therefore

Resolved, That the Sections may meet for scientific work at 11 A M as well as at 3 P M

The resolution was adopted

Dr Davis asked the Judicial Council to meet at the Burnet House at 9 AM on Wednesday Permanent Secretary read invitations from the Col lege of Music of Cincinnati, from the Cincinnati Chamber of Commerce, from the Technical School of Cincinnati and from the Centennial Exposition Association, which were received with the thanks of On motion, the Association ad the Association journed to meet at 10 A M on Wednesday

WEDNESDAY, MAY 9- SECOND DAY

THE PRESIDENT called the Association to order at The Secretary announced the following IO A M

Patterson, Ga, R. Battey, Ill, C Gilman Smith, Ind, T B Harvey, Ia, R W Llewellyn, Kan, J E Minney, Ky, D S Reynolds, La, T G Richardson, Me, A Garcelon, Md, J J Chisolm, Mass, Minn, Alex J Stone, Neb, R C Moore, N J, I N Quimby, N Y, L D Bulkley, Ohio, Thad A Reamy, Pa, A M Pollock, S C, J Evans, Tenn, T K Powell, Tex, E J Bell, Vt, D P Allen, Va, J W Chancellor, Wis, J T Reeve, U S N, W T Hord, U S Marine Hosp, John B Hamilton

Dr Roberts Bartholow, of Pa, read the

ADDRESS IN MEDICINE

(See p 669) On motion it was referred for publication

Dr J H Hollister, of Ill, Secretary of the Board of Trustees, read the

ANYUAL REPORT OF THE TRUSTEES OF THE JOURNAL as follows

The Trustees for the publication of The Journal OF THE AMERICAN MEDICAL ASSOCIATION respectfully submit the following as their annual report

THE JOURNAL has been issued upon the day named for publication, each week of the current year

The number of copies required for the supply of the members of the Association and for subscribers weekly was 4,572 To provide for exchanges, and for the completion of files, as members may desire, the weekly issue was placed at 5,000 copies editorial management, as formerly, is committed to Prof N S Davis as editor in chief It has its own office of publication at Chicago, and the cash value of its type, fixtures, etc , belonging to The Journal printing-office, amounts to \$1,054 19, which is free of incumbrance and properly insured

The receipts of THE JOURNAL for the year have hands been as follows

It should be said in explanation that all member ship dues are paid to the Treasurer of the Association, leaving only the money paid for subscriptions, advertisements, reprints and extra Journals to be Hollister, Secretary, Ill received at the office of publication From the sources just named there have been received at this and its recommendations were adopted office during the year ending March 31, 1888, the sum of \$11,897 98, of which \$2,452 25 was from subscribers, \$8,548 48 from advertisers, \$753 75 for reprints, and \$143 50 rent for part of printing office These figures show an aggregate increase of income from the sources named of \$4,317 35 over the receipts from the same sources the preceding year

The disbursements on account of The Journal have been as follows

The total publication expenses of The Journal during the year ending March 31, 1888, was \$16,-THE JOURNAL, from four to six pages of advertising, next meeting 200 copies to the regular weekly issue, the printing of the triennial list of permanent members of the to the Constitution offered at the last session Association, and the issue of 20,000 extra copies and

The aggregate their distribution as sample copies cost of these several items fully equals the increase in expenses, and yet, as shown in the preceding paragraph, the increased receipts through the publica-C J Belt, Mich, W Brodie, Mo, T J Lutz, tion office alone have exceeded the increased expenses by \$1,217 S9

It will thus be seen that THE JOURNAL is not only self-sustaining, but actually-a source of revenue to

The Trustees are unanimous in the opinion that the increased receipts should be wisely expended in the improvement of The Journal As the type in use is becoming somewhat worn, they have decided that the next volume shall appear in a new dress and with a better quality of paper They have authorized, beside this, a sum not to exceed \$400, to be expended in meeting legitimate needs, at the office of publication

It is also the purpose of the management, so far as means will permit, to enlarge the editorial corps and render The Journal of constantly increasing value to our members and subscribers

We believe that the best interests of The Journal require that we make the following request, namely.

That the Association shall place at the command of the editor in chief the exchanges of The Journal. for reference, and that the books and monograms for review and editorial notice be also placed at his disposal to be used by him in such manner as in his judgment the interests of The Journal may require

In conclusion the Trustees desire to express their sincere thanks for the confidence which the Association has been pleased to repose in them, and they beg to assure you that, so far as their individual and united effort may avail, they will earnestly endeavor to command the continuance of that confidence and to fulfil as best they may the trust committed to their Very respectfully,

J M Toner, President, D C, E M Moore, N. Y, Leartus Connor, Mich, A Garcelon, Me O Hooper, Ark, L S McMurtry, Ky, E O Shakespeare, Pa., Wm T Briggs, Tenn, and J H.

On motion of Dr W H Daly, Pa, it was received,

Dr E A Wood, of Pa, Chairman, read the report of the Committee on Dietetics

Dr F Woodbury, of Pa, presented certain views as an exposition of how the work on Dietetics should be done

On motion of Dr L A Sayre, N Y, amended by Dr Benj Lee, Pa., and accepted by Dr Sayre, it was Resolved, That the Committee on Dietetics becontinued, and that it be and is hereby instructed to present a report at the next meeting of this Association embodying the general principles to be observed 261 47, being an increase of expenditure in this de- in a rational system of dietetics, that the Committee partment of \$3,099 46 over that of the preceding have power to enlarge its membership, and that the This increase of expenditure has been caused Committee of Arrangements is hereby authorized to by the addition of four pages of reading matter to give its work a proper place on the programme of the

Dr N S Davis, Ill., brought up the amendments

Vice-President Dr Duncan Eve, Tenn, presided.

The amendment relative to members by application was read, and on motion was unanimously

adopted as follows.

Members by Application shall consist of such members of the State, County and District Medical Societies entitled to representation in this Association, as shall make application in writing to the Treasurer, and accompany said application with a certificate of good standing signed by the President and Secretary of the society of which they are members, and the amount of the annual membership fee, \$5 shall have their names upon the roll and have all the rights and privileges accorded to Permanent Members, and shall retain their membership upon the same

The amendment regarding the Board of Trustees was presented and unanimously adopted, as follows

The Board of Trustees shall consist of nine members, three of whom shall be elected annually on the nomination of the standing General Committee, and It shall be the duty of shall serve for three years this Board to provide for and superintend the publication and distribution of all such proceedings, transactions, and memoirs of the Association as may be ordered to be published, and in such a manner as the Association may direct, and in doing this, it shall have authority to appoint an editor and such assistants, and determine their salaries, and procure and control such materials as may be necessary for the accomplishment of the work assigned to it To further facilitate its work it shall be the duty of the Secretaries of the Association and of the several Sections, during each annual meeting, or as soon thereafter as practicable, to deliver to the Board, or such editor or agent as it shall appoint, all such records of custom of the profession to render services gratui proceedings, reports, addresses, papers, and other documents as may have been ordered for publication, either in the general sessions or in the Sections All frequent occurrence of endorsements and recom moneys received by the Board of Trustees or its agents, resulting from the discharge of the duties assigned them, must be paid to the Treasurer of the Association, and all orders on the Treasurer for disbursements of money in any way connected with the work of publication must be endorsed by the President of the Board of Trustees It shall be the fur ther duty of the said Board of Trustees to hold the official bond of the Treasurer for the faithful execution of his office, to annually audit and authenticate his accounts, and present a statement of the same in its annual report to the Association, which report shall also specify the character and cost of all the publications for the Association during the year, the number of copies still on hand, and the amount of all other property belonging to the Association under its control, with such suggestions as it may deem

The third amendment, relative to the superseding

of the Nominating Committee was read

Dr J M Keller, of Ark, moved to amend that

each State should select On motion, of Dr Daly, this was laid upon the

After some further discussion, on motion of Dr H A Johnson, of Ill, it was agreed to print the

amendment and make it the special order for Thurs day, at 12 M

On motion, adjourned to meet on Thursday at

THURSDAY, MAY 10-THIRD DAY

THE PRESIDENT called the Association to order at IO A M

The Permanent Secretary read the following

RESOLUTIONS ADOPTED BY THE STATE MEDICAL SOCI ETY OF ARKANSAS AT THE THIRTEENTH ANNUAL SESSION, APRIL 27, 1888, AND ORDERED TO BE TRANSMITTED BY THE SECRETARY TO THE AMERICAN MEDICAL ASSOCIATION

Resolved, That the members of the State Medical Society of Arkansas have for years observed with pain and mortification the patronage given to char latanism in all its multifarious aspects by the religious press of our country

Resolved, further and more specifically, that the appearance in religious papers, ostensibly published for the inculcation of truth and morality, of serious homilies on prayer and praise side by side with cures for consumption, cancer, Bright's disease and other incurable ailments, to which an editorial endorsement is often given, as well as secret preparations under the cloak of remedies for diseases, but really intended for purposes of fœticide and other immoral uses, largely tend to shake the confidence of the profession of medicine in the integrity and purposes of the managers and editors of such journals

Resolved, further, that it has been the well known tously to clergymen, which we do not regret nor do we propose to recall, and yet we must assert that the mendations of the clergy of our country of penpa tetic doctors and advertising charlatans has in many instances been the only reward of our gratuitous services

Resolved, further, that we are aware that the editors of religious newspapers admit the painful situation in which these advertisements place them, and attempt to excuse themselves by saying that it is necessary to take these advertisements in order to obtain means to conduct the papers, but, in the language of ortho dox theology, we would say, "Put behind you that damnable doctrine that we must do evil that good may come"

Resolved, further, that as a Society we declare that the continued perpetration of the above offenses by some of the clergy and religious press of the country brings harm to the bodies of their constituency, and damages materially their influence upon the thinking

class of the medical profession

On motion of Dr W T Akins, of Ill, the resolu tions as read were fully endorsed as the sense of this Association

The Permanent Secretary read an invitation from the Philadelphia County Medical Society for the As sociation to hold its next meeting in that city

Dr P O Hooper, Chairman, read the

REPORT OF THE NOMINATING COMMITTEE

To the President and Members of the American Medical Association -Your Committee on Nominations have the honor to report that they yesterday met and organized by the selection of Dr P O Hooper, of Arkansas, as Chairman, and Dr John B Hamilton, of the Marine Hospital Service, as Secretary After mature deliberation they, by ballot, pro ceeded to the nomination of the following officers for the ensuing year

For President—W W Dawson, of Ohio

For First Vice-President - W L Schenck, of Kansas

For Second Vice-President-Frank Woodbury, of Penn

For Third Vice-President—H O Walker, of Mich For Fourth Vice President—J W Bailey, of Ga For Treasurer—Richard J Dunglison, of Penn

For Permanent Secretary—Wm B Atkinson, of first Tuesday in June, 1889 Penn

For Librarian—C H A Kleinschmidt, of D C For Chairman Committee of Arrangements—H R Storer, of Newport, R I

The following were elected Trustees to fill the va cancy caused by the expiration of their respective terms of office E M Moore, of N Y, John H Hollster, of Ill, and Joseph M Foner, of D C

To fill a vacancy in the Judicial Council caused by the death of Dr Stormont, of Kansas, W A Phillips, of Kansas

To fill vacancies in the Judicial Council caused by expiration of term of office A M Pollock, of Penn, W C Van Bibber, of Md, J F Hibberd, of Ind Chas S Wood, of N Y, J McF Gaston, of Ga, W H O Taylor, of N Y, George L Porter, of Conn

To deliver the address on General Medicine—Wilham Pepper, of Penn

To deliver the address on General Surgery-P S

Connor, of Ohio

To deliver the address in Slate Medicine—W H Welch, of Md

For Members of the Committee on State Medicine—Ala, Jerome Cochran, Ark, Jas A Dibrell, Jr, Cal, G G Tyrrell, Col, Chas Denison, Conn, W C Wile, Dak, F P Kenyon, D C, J F Hartigan, Del. LP Bush, Fla., JY Porter, Ga, JP Logan, Ill, J H Rauch, Ind, L D Waterman, Ia., J F Kennedy, Kan, W E Oldham, Ky, J N McCormack, La, S E Chaillé, Me, T J Foster, Md, T A Ashby, Mass, H P Walcott, Mich, Henry B Baker, Miss, Wirt Johnson, Mo, L D Matthews, Minn, Perry H Millard, N C, Thos F Wood, Neb, W M Knapp, N J, I N Quimby, N Y, T M Flandreau, N H, G P Conn, Ohio, Byron Stanton, Ore, W D Relar Done Done Lag P J H R Storer. D Baker, Penn, Benj Lee, R I, H R. Storer, S C, H T Horlbeck, Tenn, J Berrien Lindsley, Vt, J H Hamilton, W Va., G W Baird, Va., Dr Ashton Wie J T Boome H S Navy Surgeon Ashton, Wis, J T Reeve, U S Navy, Surgeon Wolverton, U S Army, F C Amsworth, U S Marine Hospital Service, J A Kinyoun

The following were named as the Committee on Necrology Ala, G E Ketchum, Ark, L P Gibson, Cal, R. H Plummer, Dak, F M Crain, D C,

roy, Ill , D W Graham, Indiana, J F Beard, Ia , J F Priestly, Kan, Robert Aikman, Ky, H M Skillman, La., J R Matas, Me, A J Fuller, Md, John Morris, Mass, G M Garland, Mich, G E Ramsey, Miss, Dr Trimble, Mo, A H Meisenbach, Minii, W W Mayo, N C, K P Battle, Neb, Dr Galbreth, N J, W P Watson, N Y, W W Potter, N H, Dr Whiting, Ohio, A H Brundage, Ore, Dr Shackleford, Tenn, J B Murphy, Vt, A L Finley, Va, M L James, Wis, Dr Mackie, U S Navy, W T Hord, U S Marine Hospital Service, P H Bailhache

Your Committee also selected of their number the following as a sub committee to appoint alternates in case any gentleman named to deliver a general address shall decline to serve, viz John B Hamilton, Wm Brodie and A Garcelon

Your Committee name as the next place of meeting, Newport, R I, and the time of meeting as the

P O HOOPER, Prest

JOHN B HAMILTON, Secy
On motion of Dr J F Hibberd, Ind, the report was received and the nominations were confirmed

Vice President Dr Duncan Eve was called to the

Dr. E M Moore, N Y, read the Address on On motion, a vote of thanks was extended to Dr Moore for his able paper, and it was referred for publication (See Journal of May 19)

The Permanent Secretary read the

REPORT OF THE RUSH MONUMENT COMMITTEE, A L Gihon, Chairman, also, report of Dr Toner, Treasurer of the same

REPORT OF THE RUSH MONUMENT COMMITTEE

As Chairman of the Committee appointed to provide for the erection of a monument to Benjamin Rush at the capital of the United States, I beg to report progress, albeit that progress is exceedingly slow and unsatisfactory Your Committee might be wholly discouraged but for the fact that nowhere has there been met anything but approval and commendation of the proposed monument So uniform has been this sentiment that it cannot be doubted that, among the more than 100,000 physicians and students in the United States, a sufficient number will be found to contribute a dollar each to erect such a statue at the National capital as shall be creditable to the medical profession, an appropriate testimonial of this great patriot-physician, and a conspicuous ornament among the many beautiful works of art which adorn the city of Washington I have never met a person opposed to this project, and have only heard of one, whom I regret not having seen, for he must be the one without compare in our profession, who did protest against giving a dollar towards erecting a statue to a man "who had founded a medical college at Chicago and had not left money enough to put a monument over his own grave"

The chief problem your Committee has had presented to it and has not yet satisfactorily solved, is how to collect these subscriptions from persons who, while quite willing to hand a dollar to any one ready J M Toner, Fla, Neal Mitchell, Ga., P R Courtle- to receive it, forget, or neglect, or do not care to take

the trouble to obtain a mailable dollar and send it to any appointed address Similar forgetfulness, neglect and indisposition are true of individual members of the effigy of Benjamin Rush should have a place in the Committee, who, under its original constitution, were charged with the collection of subscriptions from the residents of the entire State or Territory which The labor and expense of atthey represented tempting to communicate by correspondence with tendance at Cincinnati, and though, at no distant 100,000 individuals scattered over all this country are day, I entertain the hope of a field of duty less re so great, that it is hoped the members of the medical profession, on reading this statement, will at once inclose their subscriptions to the Treasurer of the Monument Fund, Dr Joseph M Toner, at 615 Louisiana Avenue, Washington, D C, and that every physician so doing will further personally interest himself, and herself, in obtaining a similar subscription from each friend and acquaintance in the ranks of the profession in his or her immediate neighborhood

Apart from individual effort, the chief dependence of your Committee must be on the zealous cooperation of the medical societies, medical colleges, and other medical institutions, and more than all in that of the medical press of the country The State Medical Society of California, at its annual meeting at San Francisco on April 18, gave an earnest of the True to their promise of possibilities of State work the previous year, every member of the Society, during a recess taken for the purpose, handed a dollar subscription to Dr Tyrrell, the member of the Committee for California, who was thus able to transmit to the Treasurer \$106, the amount subscribed being the exact equivalent of the number of members in attendance This Society went further, and by vote instructed the Permanent Secretary to communicate with the President of every County Medical Society in the State and urge concurrent action tant State lend such enthusiastic and material aid to our undertaking, may it not be expected that all others will manifest similar interest, which ought to be proportionally greater as the birth-place and home of Rush and the site of the contemplated statue are approached?

Unless the several States and Territories can be represented in the Committee by men who will engage to thoroughly canvass each respectively, the work of collecting funds must chiefly devolve upon the officers and an executive subcommittee, who, through the columns of medical journals and the cooperation of medical associations, will endeavor to reach the greatest possible number of our professional It will obviate the necessity for intermediary correspondence if all subscriptions and donations are at once mailed to Dr Toner, the Treasurer, as above suggested, and in this connection it may be proper to state, in reply to numerous inquiries, that the limitation of subscriptions to one dollar is not intended to prevent the donation of any other sum which those interested in the project may desire to make.

After previous recitals of the eminent services of this "greatest physician this country has ever produced,"-of this learned and distinguished man of letters and science, this indefatigable philanthropist, Treasurer \$709 19 sanitarian and social reformer, this illustrious states | cal Society has, I am informed, made a subscription

man, Revolutionary military officer and patriot, it is unnecessary to add another word in explanation why the National gallery beside those of the other founders of this Republic.

I have to regret that the evigencies of the naval service to which I belong have not permitted my atmote, if the Association believe it will be for the better interests of this undertaking to place the chairmanship of this Committee in other hands, I beg to be permitted to resign my trust for this purpose, assuring my fellow-members of my undiminished interest in the realization of a project which I had the honor of first proposing to them, four years ago, at To the Medical Corps of the Army Washington will ever remain the credit of having inaugurated and established the great National Medical Library and Museum which now graces the capital of this coun-As an officer of the Medical Corps of the Navy, I shall always feel proud of having suggested and, in however feeble a way, contributed towards placing at the portal of that magnificent and unrivalled depository of medical literature, science and art, the enduring testimonial of one who so honored his profession that his name is inseparable from American medicine, and so honored his country that his exemplary life is part of that country's history Respect-ALBERT L GIHON, M D, fully submitted

Chairman of Rush Monument Committee.

The Treasurer of the Rush Monument Committee begs leave to submit this his second annual report of the financial condition and prospects of the movement to collect sufficient funds to erect an appropriate monument to the memory of this great physician-As far as I can discover, the project is approved by all who have given a moment's thought to it, and no physician who loves his profession ever declines to give, when asked by a duly authorized agent Committee has upon it a member resident in each State and Territory, the Army, Navy and Marine Hospital Service, with a view to reach the whole profession, yet the Treasurer has only heard from the following States and Territories during the year

Arkansas, California, Dakota, District of Columbia, Maryland, Pennsylvania, South Carolina, Tennessee, Wisconsin, U S Army and U S Navy

The Chairman of the Committee, A L Gihon, Surgeon U S Navy, in his report gives a succinct account of the efforts of the Committee in the past, and its hopes in the future, to meet the reasonable expectations of the American Medical Association in this enterprise to which it has committed itself shall therefore confine my report strictly to the finan-There was remaincial condition of the movement ing in the treasury at the time of my last report \$392 The whole sum which has reached the Treasurer since his last report is \$498, and the total outlay since last There are practically no bills outstanding and there is now in the bank-book of the The Pennsylvania State Mediof \$500 to be paid in annual installments, \$100 of which has been paid and is credited in this report It is also reported that the Michigan State Medical Society has voted \$100, this has has not yet reached the Treasurer Contributions by the medical men attending the State Medical Society of California during last month amounted to \$105 and were made to Dr G G Tyrrell, member of the Rush Monument Committee for that State For some cause not yet me in two postal orders explained, the post-office in Washington has not been informed, up to the time of my leaving, to pay these orders In my report I have treated this amount as actually in my hands or in bank, for I had confidently All I can now do expected it to be paid each day is to exhibit the post office orders which are pinned to the bank-book as my authority, which I do bank book of the Rush Monument Committee is herewith submitted

The rules adopted by the Committee for husbanding the funds collected for the monument have been They are, in brief, that all moneys strictly observed received shall be deposited by the Treasurer in the bank of Riggs & Co, of Washington, to the credit of the Rush Monument Committee, that no debts shall be contracted by individual members of the Committee not authorized by a vote of the Committee except the necessary expenses of postage and printing, and these must have the concurrent sanction of the President, Secretary and Treasurer, and that no moneys shall be drawn from the treasury except upon vouchers bearing the endorsements of the President and Secretary of the Committee

Appended to this report is an alphabetical list of all the contributions since last report, with their postoffice address and the amount given by each

A. K. Agara, Oakland, Cal, C. H. Allen, Centerville, Cal, F C Amiss, St Louis, Mo, J A Anderson, San Francisco, Cal, J D Arnold, San Francisco, Cal, Wm Ashmead, Phil adelphia, Pa , \$100

C G Balley, Santa Anna Cal, J E S Baker, Angel's Camp, Cal, A Barhan, San Francisco, Cal, D N Bartolette, U S N, J B Baylor, Baltimore, Md. H M Beck, Wis, B P Bellamy, Livermore, Cal, C E Blake, San Francisco, Cal, J M Boyd Knoville, Tenn J B Bratton, Yorkville, S C, L. Bremer, St Louis Mo, J M Briceland, Shausta, Cal, C E Briggs, Sacramento, Cal, W E Briggs, Sacramento, Cal, H J Brodie, Cambria, Cal, C B Brown, San Francisco, Cal, O O Burgess, San Francisco Cal San Francisco Cal

An Francisco Cal

N G Cabell, U S N, M A Cachot, San Francisco, Cal,
M Campbell, Knoxville, Tenn, C G Cargill, Lakeport, Cal,
L Carpenter, Lakeport, Cal, N B Carson St Louis, Mo,
R Chatham, Nashville, Tenn., M M Chipman, San Francisco,
Cal, Geo Chismore, San Francisco, Cal, W D Clark,
Cottonwood, Cal, J M Coffman, Black Rock, Ark, R B
Cole, San Francisco, Cal, C M Cooper, Cleveland, Tenn,
John Curwin, Warren, Pa., \$10, Clinton Cushing, San Fran
cisco, Cal.

John Curwin, Warren, Pa., \$10, Clinton Cushing, San Francisco, Cal.

H C Dalton, St Louis, Mo, G W Davis, San Francisco, Cal, T A Davis, San Dego, Cal, H L Day, Wis, C Deaderich, knoxville, Tenn., J O'F Delanev, St Jouis, Mo, T B DeWitt, San Francisco, Cal, Wm Dickinson, St Louis, Mo, R Douglass, Nashville, Tenn, C M Drake, Knoxville, Tenn F C Durant, San Quinton, Cal

C. N Ellinwood, San Francisco, Cal, T P Eagle, Folsom, Cal R W Earle, Wis., J S Eastman Berkly, Cal., Jos. D Eggleston, Worsham, Va, Wm G Eggleston, Chicago, Ill

Henry Ferrier, San Francisco, Cal, E N Foot, Lockford, Cal, E J Fifield, Petaluma, Cal, W E Fifield, San Fran-

Cal, E J Fisield, Petaluma, Cal., W E Fisield, San Francisco, Cal, C C Fite, Knoxville, Tenn, G J Fitzgibbon, San Erancisco, Cal, F R Fry, St Louis, Mo A M Gardner, Calestoga, Cal, Henry Gibbons, Jr, San Francisco Ctl, W P Gibbon, Alameda, Cal, F A Glasgow, St Louis, Mo, G W Graves, Petaluma, Cal, J D Griffith, Kansas City, Mo, W A Grover, Berkly, Cal J R Hall, Marshall, Mo, Geo Halley, Kansas City, Mo, H N T Harris, U S N, A J Hart, Modisto, Cal, H H Hart San I rancisco, Cal, H N Hardister, Victor, Ark, W J Hatcher, Imboden, Ark, E H Higbee, St Louis, Mo, T Happel, Trenton, Tenn, H O Hirshfelder, San Francisco, Cal, W H A Hodgdon, San Francisco, Cal, Geo Homan, St Louis, Mo, K I Howard, San Francisco, Cal, Geo Homan, St Louis, Mo, K I Howard San Francisco, Cal, S D, Howard, San Francisco, Cal, T W Huntington, Sacramenbark, for I had confidently to, Cal to, Cal E H Irwin, Wis

to, Cal

E H Irwin, Wis

J W Jackson, Kansas City, Mo

F B Kane, San Francisco, Cal, C G Kenyon, San Francisco, Cal, W W Kerr, San Francisco, Cal, A R Kinloch, Charleston, S C, \$5, S B P Knov, Santa barbara, Cal

G La Bruce, San Francisco, G D Ladd, Wis, L C Lane, San Francisco, T S Latimer, Baltimore, Md, W M Lawler, San Francisco, T J Le Tourneauv, San Francisco, G P Lee, Merced, Cal, J R Lemen, St Louis, Mo, J M Leete, St Louis, Mo, B B Lenoir, Lenoir's, Tenn, W B Lewitt, San Francisco, Walter Lindley, Los Angeles, Cal, Henry Lip pincott, U S A, W F Lynch, Walnut Creek, Cal, E V Lonigo, San Francisco, S F Long, San Francisco, F J Lutz, St Louis, Mo, Douglas Luce, Banta, Cal

W D McCarthy, San Francisco, W W McFarlane, Ag new, Cal, W F McNutt, San Francisco, W H Mays, Stockton, Cal, L Melton, Wheatland, Cal, E S Merritt, San Francisco, G W Merritt, San Francisco, John Montgomery, San Francisco, M W Moody, San Francisco, D McL Miller, Wis, J H Miller, Redding, Cal, H H Mudd, St Louis, Mo, A Munro, Wis, J C Mulhall, St Louis, Mo B Norris, Surg U S A, J F Noyes, Detroit, Mich H S Orme, Los Angeles, Cal

J H Parkinson, Sacramento, Cal, F H Payne, Berkly, Cal, Pennsylvania State Medical Society, \$100, T Phillips, Stockton, Cal, R H Plummer, San Francisco, G H Pow ers, San Francisco, A H Pratt, Oakland, Cal, G J Preston, Baltimore Md, T F Prewitt, St Louis, Mo, T H

ers, San Francisco, A H Pratt, Oakland, Cal, G J Pres ton, Baltimore Md, T F Prewitt, St Louis, Mo, T H Pinkerton, Oakland, Cal.

G P Reynolds, Alameda, Cal, J G Riely, Santa Anna, Cal, J Rosenstine, San Francisco, T Ross, Woodland, Cal, E B Robertson, Jackson, Cal, H D Robertson, Yreka Cal, J W Robertson, Napa, Cal, M Rosenheimer Wis

E R C Sargent, San Francisco, D D Saunders, Memphis, Tenn, W J Scott, Cleveland, O, A Shirp, San Francisco, J V Shoemaker, Philadelphia, Pa, J Simpson, San Francis J V Shoemaker, Philadelphia, Pa, J Simpson, San Francisco, Jos Sampson, San Francisco, Jules Simon, San Francisco, J C Sundberg, San Francisco, J H Soper San Francisco, South Carolina Med. Association, \$50, J H Stallara, San Francisco J Steer, St Louis, Mo C A Thompson, Jefferson City, Mo, W S Thome, San Jose, Cal., C A Todd, St Louis, Mo, J R Todd, Gridley, Cal., M C Toole, San Francisco, H Tuholske, St Louis, Mo G G Tyrrell, Sacramento, Cal C C Valle, San Diego, Cal., G A Vogt, Biehle Mo, Wm Varian, Titusville, Pa

I M Wanzer, San Francisco, Warren Co Med Society, Pa \$10, C V Westlake, Red Bluff, Cal, W J Watkins, Walnut Ridge, Ark, J P Widnay, Los Angeles, Cal A P Whittle, San Francisco, Def Willard, Philadelphia, Pa., \$5, Wisconsin State Med Society, \$50

All of which is respectfully submitted J M Toner, Treasurer Rush Monument Committee

On motion, these reports were received, and the usual auditors were requested to examine the report of the Treasurer

The Permanent Secretary then read the report of Dr R. J Dunglison, Treasurer of the Association

¹ When not otherwise specified the amount is \$i

48 60

12 50

1 95

2,407 83

\$25,649 90

REPORT OF THE TREASURER

I have the honor to report, as Treasurer of the Association, that the receipts from all sources since the last annual report, presented at Chicago in June, 1887, have amounted to \$25,649 90, the expenditures, as per itemized account accompanying this report, to \$23,242 07, leaving a balance in the treasury at this date of \$2,407 83 Copies of the Transactions of the Association have been sold during the past year from the office of publication amounting in all to \$125 00

All of which is respectfully submitted RICHARD J DUNGLISON, Treasurer

Dr Richard J Dunglison, Freasurer, in account with the American Medical Association June 7, to cash balance, as per report at Chicago meeting
June 11, to amount received from delegates and members at \$1,403 77 Chicago 5 205 00 **888**1 May 5, to amount of dues from members to date 7 643 15 11,397 98 May 5, to amount received from office of publication to date \$25,649 90 1887 June 15, by cash paid Dr Wm B Atkinson, Perm't Sec'y, expressage, telegrams, postage and traveling expenses \$ 148 65 June 17, by cash paid Wm F Fell & Co, printing postal cards, and stamped envelopes

June 18, by cash paid Dr Richard J Dunglison, Treasurer, expenses of travel, postage telegrams, etc

July 14, by cash paid Dr C G Smith, Chairman Com of Ar rangements, Chicago, rental of halls, printing, etc

Aug 15, by cash paid Wm F Fell & Co, printing slips, cards, stamped envelopes 104 75 704 86 Aug 18, by cash paid Will F Fell & Co, printing stips, cards stampted envelopes
Aug 18, by cash paid Dr E S F Arnold, Treasurer International Med Congress, by resolution of Association
Aug 30, by cash paid Wm F Fell & Co, stamped envelopes 1000 00 and postals and postals

Aug 31, by cash paid for postage, expressage and collection charges to date

Sept 21, by cash paid for stationary, postage, etc

Sept 24, by cash paid Wm F Fell & Co, printing slips, stamped envelopes, etc

Nov 10, by cash paid Wm F Fell & Co, printing note heads and slips stamped envelopes

Nov 12, by cash for postage, collection charges, P O box, circulars, etc 39 45 9 13 44 30 27 OI circulars, etc 36 14 28, by cash paid Dr C H A Kleinschmidt, Librarian, freight on books Dec 13, by cash for collection charges, postage, addressing Dec 13, by cash paid Wm F Fell & Co, printing slips, stamped envelopes, etc

Dec 22, by cash paid Wm F Fell & Co, postal cards and stamped envelopes

1888 12 95 25 5**5** Feb 27 by cash paid for collection charges on \$1 405 (drafts deposited for collection) 28 10 March 17, by cash for stationery, postals, rental of P O box, collection charges etc
May 7, paid publication expenses of the Journal of the Asso cation to date. 56 17 14,885 93 March 7, by cash paid Dr N S Davis, editorial work to date 6,000 00

Cincinnati, May 10, 1888

This certifies that we have examined the accounts and vouchers of the treasurer to this date, and find the same correctly cast and properly vouched ALONZO GARCELON, (Signed)

May 7, by balance

L S McMurtry, T Briggs W

On motion it was received and placed on file The Permanent Secretary then read the

REPORT OF THE LIBRARIAN,

Dr C H A Kleinschmidt as follows I have the honor to present the accompanying catalogue of additions to the Library of the Associa-

tion since my last published report It will be seen that the catalogue covers the period from May 1, 1886, to May 1, 1888, for the reason that my last re port made to the Association in 1887, was somehow lost after having been presented

In the period specified 369 distinct titles have been added to the Library, exclusive of Transactions of Societies Reports of Boards of Health, and Medical Journals not previously received and catalogued as The Library therefore at present contains about 7500 volumes, representing 2850 titles

In conclusion, I would respectfully suggest that the subscription to the Index Medicus for the current year be continued, and that the sum of \$10 be ap propriated to that end

Respectfully submitted,

C H KLEINSCHMIDT, Lıbrarıan

On motion it was received, and the amount, (\$10) requested was granted

The special order being the consideration of the amendment laid over from yesterday, on motion of Dr N S Davis it was laid on the table until the next annual meeting, on account of delay in receiv ing printed copies as ordered yesterday

Several motions having been offered on the same, the President decided them out of order as the sub

ject had been disposed of 40 13

The following amendment was offered by Dr N S Davis, which lies on the table until the next annual "Strike out the last clause or paragraph meeting of Section VII, relating to individually affixing names to the constitution and regulations of this Association "

Dr H N Moyer, of Ill, offered the following amendments which lie on the table until the next

annual meeting

There shall be created a Section of Pharmacy and Materia Medica which shall have its own autonomy in like manner as the Section in Dental and Oral Surgery Reputable members of State Pharmaceutical Associations shall be eligible as members of the same on presentation of credentials from their State Secretary, but shall have no voice in The Section the general sessions of the Association of Surgery shall hereafter be denominated the Sec-There shall be tion of Surgery and Gynæcology created a Section of Anatomy and Physiology The Section of Obstetrics and Diseases of Women The Section of Diseases of shall be abolished Children shall hereafter be denominated the Section The Section of of Obstetrics and Pædriatrics Dermatology and Syphilography shall hereafter be denominated the Section of Dermatology and Gerito-The Section of Medical Juris Urinary Diseases prudence shall hereafter be denominated the Section The Section of of Mental and Nervous Diseases State Medicine shall hereafter be denominated the Section of State Medicine and Medical Jun-The Section of Practice of Medicine, Materia Medica and Physiology shall hereafter be denominated the Section of Internal Medicine

On motion of Dr J M Keller, of Arkansas it 7.25 Resolved, That in future, each Delegate or perma

nent member, shall, when he registers, also record the name of the Section, if any, that he will attend, and in which he will cast his vote for Section Officers

He stated that he had offered this because it was found that members voted in several Sections, thus aiding in the election of officers of more than one Section

had yesterday, permitting the Sections to meet at

After some discussion, it was adopted

Dr W Brodie, Mich, offered a motion that in future the Committee of Arrangements do not provide for an exhibition

On motion of Dr I N Love, Mo, the subject was laid on the table

Dr Toner, of the Committee on Necrology, announced that his report had been published in THE Journal from time to time

Dr A Garcelon, Me, announced for the auditors that they had examined the accounts of Dr Toner, Treasurer of the Rush Monument Fund, and found from the Section on State Medicine them correct

A communication was presented by Dr I N Quimby, N J, from the Woman's Christian Temperance Union

On motion, it was laid on the table

On motion, the Association adjourned to meet at 10 4 11, on Friday

FRIDAY, MAY 11-FOURTH DAY

THE PRESIDENT called the Association to order at IO A VI

The Address in State Medicine was read by DR

H P WALCOTT, Mass

On motion of Dr Toner, it was referred for publication, and thanks rendered to the author THE JOURNAL, May 26)

Dr N S Davis read a brief abstract of the report of the Standing Committee on Meteorological Conditions

On motion, the report was referred for publication Dr I N Quimby, N J, read the report of Committee on Fæticide

After some discussion, on motion of Dr W Bishop, Pa, the whole subject was laid upon the table

Dr H O Marcy, Mass, read the report of the Committee on duties commonly exercised by Coroners On motion of Dr S T Armstrong, U S Marine

Hospital Service, the report was received and the Committee continued

The Permanent Secretary read the names of the newly elected

OFFICERS OF SECTIONS

Practice of Medicine, etc -F C Shattuck, Boston, Mass, Chairman, G A Fackler, Cincinnati, Ohio,

Surgery and Anatomy -N P Dandridge, Cincinnatı, Öhio, Chairman, W O Roberts, Louisville, Ky, Secretary

Obstetrics and Diseases of Women -W H Wathen, Louisville, Ky, Chairman, A B Carpenter, Cleveland, Ohio, Secretary

State Medicine — J Berrien Lindsley, Nashv.lle, Tenn, Chairman, S T Armstrong, U S Marine Hospital, N Y, Secretary

Ophthalmology, Otology and Laryngology -Geo E Frothingham, Ann Arbor, Mich, Chairman, G

C Savage, Nashville, Tenn, Secretary

Laryngology and Otology -W H Daly, Pittsburg, Dr W H Daly, Pa., moved to rescind the action Pa, Chairman, E Fletcher Ingalls, Chicago, Ill, Secretary

> Diseases of Children — J A Larrabee, Louisville, Ky, Chairman, C J Jennings, Detroit, Mich, Sec-

Medical Jurisprudence -W Kiernan, Chicago, Ill, Chairman, T C Evans, Baltimore, Md, Secretary Dermatology and Syphilography -L Duncan Bulk-

ley, N Y, Chairman, W T Corlett, Cleveland, Ohio, Secretary

Oral and Dental Surgery -F H Rehwinkel, Chillicothe, Ohio, Chairman, E S Talbot, Chicago, Ill, Secretary

The Permanent Secretary then read the following

To the Secretary of the American Medical Association, Sir —I have the honor to report that the Section on State Medicine respectfully recommends the passage of the following resolution by this Associa-

Resolved, That the American Medical Association urges upon the House of Representatives of the Congress of the United States, the necessity and importance of the immediate passage of Senate Bill No 2493—"To Perfect the Quarantine Service of the United States"-which bill has passed the Senate and is now pending in the House of Representatives, in order to make provision for protection against the introduction of contagious diseases before the approaching summer Very respectfully,

S T ARMSTRONG, Secy of Section on State Medicine

Cincinnati, May 11, 1888

On motion, this resolution was adopted as the sense of the Association

Dr J M Keller, of Ark, read the following notice for amending the By-laws, viz "To change the By-law whereby the officers of Sections are elected by the Sections "

This will lie over till next meeting

Dr W Porter, Mo, and others called up the amendment to the Constitution offered by Dr C Seiler, Pa, in 1884, and now asked for by the Section on Ophthalmology

The action was agreed to, and a new Section on Laryngology and Otology was created

The Permanent Secretary read the list of members.

appointed as delegates abroad, as follows

R H Plummer, San Francisco, Cal, N S Davis, Chicago, Ill, J J Chisolm, Baltimore, Md, L A Sayre, N Y, J B Hamilton, D C, C C Vaughan, Mich, J E Owens, Chicago, Ill., S J Jones, Chicago, Ill, H A Kelly, Philadelphia, Pa, A E Hoadley, Chicago, Ill, W H Myers, Ft Wayne, Ind, F E Washam, Chicago, Ill, J V Shoemaker, Philadelphia, Pa, D A K Steele, Chicago, Ill, Alex McAlister, Camden, N J, Ephraim Cutter, New York

After much discussion, on motion of Dr N S Davis, the report by Dr Quimby, on Faticide, was taken from the table and referred to the Section on State Medicine

In accordance with certain suggestions in the President's Address, Dr Quimby brought up the subject of legislation for State Boards of Examiners

Dr Armstrong stated that such a committee al-

ready existed

Dr Toner moved to refer this matter to that committee

On motion of Dr J H Murphy, of Minn, the whole subject was laid on the table

On motion of Dr S F Forbes, Ohio, it was

Resolved, That the American Medical Association approve of the movement looking to the celebration in Washington, in 1892, of the 400th Anniversary of the discovery of this Continent by Columbus, and the establishment there of a Museum of the Arts, Industries, and Antiquities of the Free Americans, and hereby request Congress to pass the necessary legislation by appropriations to this end

On motion of Dr F Woodbury, Pa, the following

was unanimously adopted

WHEREAS, The delegates and members of the American Medical Association at the conclusion of its 30th annual meeting have been very hospitably received and entertained by the local profession and citizens of Cincinnati, and

WHEREAS, Owing to the well directed efforts of the Committee on Entertainment and their able colleagues, this has proved to be one of the most harmonious and enjoyable meetings ever held in the

history of this Association, therefore

RESOLVED That the heart-felt acknowledgement of this meeting be tendered to the physicians of this city, to the Apollo Club, and to all who have contributed towards the great success of this session, and especially are our thanks due, and we take pléasure in this manner to express them, to the rare cotene of ladies, who have given brilliancy to the social entertainments by their charming presence They are the best jewels in the crown of this metropolis, which is destined to be the "Queen City" of the East as well as "the West"

On motion of Dr Toner, the thanks of the Association were given Dr Garnett, for the able manner in which he had presided Dr Garnett acknowledged this in a brief and appropriate address

On motion of Dr W H Daly, Pa, the Association then adjourned to meet in Newport on the 1st

Tuesday of June, 1889

WM B ATKINSON, Permanent Secretary

MISCELLANEOUS.

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM MAY 19, 1888, TO

Col Chas Sutherland, Medical Director, to inspect the medical department at St. Francis Bks., Fla., Ft. Barrancas, Fla., Mt. Vernon Bks., Ala., and Jackson Bks., La. S. O. 100, Div. Atlantic, May 19, 1888

Major F L Town, Surgeon, U S Army, Post Surgeon at the Post of San Antonio, Tex, will take charge of the office of the Medical Director at those headquarters, and perform the duties of that officer during his absence on leave S O 31, Dept Texas, May 11, 1888

Major Harvey E Brown, Surgeon, directed to continue on duty at Ft Barrancas, Fla, until further orders SO 115, A

at Ft Barraneas, Fia, until further orders S O 115, A G O, May 18, 1888

Major J P Kimball, Surgeon, leave of absence extended two months S O 117, A G O, May 21, 1888

Capt Geo McCreery, Asst Surgeon, to accompany Seventh Cavalry from Ft Meade, D T, to Ft Riley, kan From Ft Polar be well return to Et Meade, S O 42 Dept. Del. Ft Riley he will return to Ft Meade S O 42, Dept Dak,

May 17, 1888
Capt M C Wyeth, Asst Surgeon, will be relieved from duty at Ft Barrancas, Ila, at the expiration of his present leave of absence, and will report in person to the commanding offi cer Ft Huachuca, Ariz, for duty at that post S O 115,

A G O, May 18, 1888

First Lieut Vin L Kneedler, Asst Surgeon, will accompany from Ft Snelling, Minn, that portion of the Twenty fifth In fantry detailed for Ft Shaw, M T From Cascade, M 1, he will accompany that portion of the Third Infantry in rouse from Ft Shaw, M T, to Ft Snelling, Minn S O 40. Dept Dak, May 14, 1888

First Lieut R L Robertson, Asst Surgeon, will accompany from Ft Keogh, M T, the Fifth Infantry to the Dept of Texas, returning to his station on the completion of the duty S O 12 Dept Dak May 18, 1888

S O 43, Dept Dak, May 18, 1888
First Lieut C B Ewing, Asst Surgeon, will accompany the Twenty second Infantry, as medical officer, to the Dept of

Twenty second Infantry, as medical officer, to the Dept of Dak, returning to his station on the completion of the duty S O 56, Dept Wis, May 17, 1888

Par 12, S O 49, Dept Tex, May 5, relative to First I ieut H S T Harris, Asst Surgeon, accompanying Eighth Cavalry to Dept of Dak, is amended by par 1, S O 50, Dept Tex, May 9, 1888, Par 1, S O 50, Dept Tex, May 9, is revoked by par 1, S O 51, Dept Tex, May 11, 1888

First Lieut H S T Harris, Asst Surgeon, will be relieved from duty at Camp Pena, Col, and proceed to San Antonio, where he will report to commanding officer battalion by

where he will report to commanding officer battalion bix teenth Infantry for duty as medical officer with that battalion to its destination in Dept Platte Upon completion of this duty, he will return to his proper station, Camp Pena, Colora

do, lex S O 51, Dept lex, May 11, 1858

First Lieut Leonard Wood, Asst Surgeon, leave of absence extended two months S O 114, A G O, May 17, 1888

First Lieut W B Banister, Asst Surgeon, granted leave of absence for two months, with permission to apply for an exabsence for two months, with permission to apply for an extension of twenty seven days. SO 119, A GO, May 231

Par 15, S O 49, Dept Tex, c s (relative to First Lieut Paul Clendenin, Asst Surgeon, accompanying Sixteenth In fantry to its destination), is revoked by S O 51, Dept Tex,

First Lieut Paul Cle idenm, Asst Surgeon, will proceed from Ft McIntosh to Ft Davis and report to commanding officer Eighth Cavalry, for duty as medical officer with that regiment on its march to Ft Concho, from which place Lieut Clenden in will return to his proper station S O 51, Dept Tex, May 11, 1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U S NAVY, DURING THE WEEK ENDING MAY 26, 1888

P A Surgeon S H Dickson, detached from the receiving ship
"Dale," and to Marine Bks, Washington, D C
P A Surgeon F S Nash, ordered to the receiving ship "Dale"

Surgeon Melancthon L. Ruth, granted one year's leave of ab-

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES
OF MEDICAL OFFICERS OF THE U S MARINE HOS
PITAL SERVICE FOR THE THREE WEEKS ENDING
MAY 26 1888 sence from date

Surgeon Walter Wyman, leave of absence extended fourteen

days Maj 22, 1888
Asst Surgeon G M Magruder, relieved from duty at Manae
Hospital, Chicago, detailed as medical officer residuce bars
"Chase," during summer season May 19, 1888

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

PUBLISHED WEEKLY

Vol X

CHICAGO, JUNE 9, 1888

No 23

ADDRESS

IN

MEDICAL JURISPRUDENCE.

THE STATUS OF MEDICAL JURISPRUDENCE AS AFFECTING THE MEDICAL PROFESSION AND THE LAITY

Address delivered at the Thirty ninth Annual Meeting of the American Medical Association, May 11, 1888

> BY E W REID, WD, OF BALTIMORE, ND ,

CHAIRMAN OF THE SECTION ON MEDICAL JURISPRUDENCE

A by-law of the American Medical Association requires that "The Chairman of each Section shall prepare an address on the recent advancements in the branches belonging to his Section, including such suggestions in regard to improvements in methods of work, and present on the first day of its annual meeting, the same to the Section over which he presides " To the majority of the Chairmen this should be a comparatively easy task, masmuch as the advancements in their respective branches are advertised through the media of the medical journals and other publications, are considered by the medical schools and colleges throughout the world, and if deemed worthy, are taught by them

But to the Chairman of a Section of Medical Jurisprudence in America the work is more difficult because of the indifference manifested by our schools, and the lack of any considerably garnered modern information from which to draw, a deficiency that 15, in this country, the result of the limited association of law with medicine Therefore, the wisdom shown by the American Medical Association in creating this Section is deserving of more than ordinary commendation, because it will not only stimulate to greater activity the workers already in the field of forensic medicine, but will bring in many more There is not at present sufficient incentive to induce the lawyer to investigate the philosophy or latent principles of the law, there is still less to spur him to inquire into that of medicine Consequently, he dips no deeper into the troubled waters of even his special branch of science than is necessary to enable him to fill his the law though not undiscovered are unapplied

of science which compelled him to go far beyond the pale of symptomatology and therapeutics, and which offered no direct emoluments to compensate him for the time and study that would be diverted from that which he has been inclined to consider the legitimate bounds of his profession For this reason, and because of the scarcity in almost any form of medicolegal laboratories to which could be carried the crude gleanings of the hardly pressed but enterprising physician, to be so wrought and polished that they could be intelligently applied to law as well as to medicine, much useful information has been lost to the world And a branch of jurisprudence, second in importance to none, capable of vast expansion, and which should be one of the most useful and active factors of human society is comparatively unavailable

MEDICAL JURISPRUDENCE A PROFESSION

That live journal, the Philadelphia Medical Register, in an admirable editorial on the subject, says "It would best become the dignity of science and truth if legal-medicine were held as a definite and distinct profession, in which the emoluments were sufficient to justify a physician in abandoning all other practice in the interest of this special work "

RESPONSIBILITY OF THE PHYSICIAN

The holding of legal medicine as a "definite and distinct profession," should now, and I sincerely hope will, in the near future, be possible But until that period arrive, the doctor who is zealous for the honor of his profession and his own reputation, must exercise a more scrupulous vigilance than has hitherto been supposed requisite He can no longer be satisfied with the daily writing of so many recipes, or the distribution of so many pills or plasters cessful he must not merely keep abreast the times, but must keep, be it ever so little, in advance of them He must be active in his efforts to discover new worlds in medical science, as well as bold and aggressive in their exploration He must be fearless but also judicious in the adaptation of new principles, and that he may be both, he can no longer ignore the fact that he must at least possess sufficient knowledge of the law to enable him to distinguish between that which is lawful and that which is unlawful in the application of modern medicine, that he may success-Therefore many of the healing qualities of fully defend himself against the attacks of the ravening wolves and vultures which will be all the more The busy practitioner of medicine has hitherto likely, because of his independent advancement and imagined he had no time to devote to any division the shaking off the shackles of old theories, to infest

his path and to endeavor to prey upon him must confront the possibility that at any moment the neglecting to observe these rules is clearly shown by aid of the law may be invoked to seek to hold him responsible for the consequences that may ensue, not only from the use of newly-discovered drugs, but from even the most intelligent administration of well established remedies

Therefore, when giving medicines, such as sodium salicylate, chloral, or others of like nature, which are liable to be followed by delirium, hallucinations, illusions, etc, it will be best to surround the patient with such safeguards as will prevent him from injuring him-He must also bear in mind self or other persons that many customs though founded on a humane rules (which I quoted above) the general practitioner, basis, can no longer be followed with impunity, e g, the physician cannot now safely conceal his lancet, and, without having given his patient warning, plunge from the imputation of which even an acquittal will it into an abscess, nor, even after the consent of the not always clear him in the eyes of the public patient has been given to be anæsthetized, in order to have one eye removed, is it advisable for the oculist to remove both, no matter what grounds he may have for believing it necessary to do so The consent of the patient to the removal of the second eye is as essential as it was to that of the first After craniotomy and delivery should life remain in the child the accoucher may not on any grounds complete the work of destruction begun in utero, for the moment the safety of the mother is no longer involved the rights of the fœtus, temporarily in abeyance, are restored, and the law recognizes the sanctity of that life no matter how feeble the existence or how mon-The time may not be far distant strous the form when the operation of craniotomy will have to be justified, not upon a mere assertion of impaction, but upon a basis of actual measurement, and the pelvimeter will have to precede the cranioclast physician should also know that the common law does not formally recognize the induction of premature labor, and when his State has failed to afford him protection by statutory provision, unless he exer cise extreme caution he may find himself in a situation from which it might be difficult to escape creditably

Tidy says (Vol 3, W L, page 100) "It is manifest that if any question should arise or action at law be commenced against a medical man either for inducing abortion, or for manslaughter if the child born alive died because it was immature, it would be necessary to show (1) that there was a necessity for the operation, the life of the mother being at stake, and the operation being less to be feared than natural delivery, and (2) that his action was bona fide" Now the constantly increasing number of conditions which are daily alleged to be sufficient grounds to justify the induction of premature labor may render to successfully defend himself against a charge of is given by Taylor, page 718, in the history of an imadequacy of cause for its performance therefore inadequacy of cause for its performance, therefore, operation performed by one of the most eminent operation performed by one of the most eminent operation performed by one of the most eminent to quote again from Tidy "We strongly urge upon surgeons of the United States upon an infant whose to quote again from Tidy "We strongly urge upon surgeons of the United States upon an infant whose surgeons of the United States upon an infant whose to quote again from Tidy "We strongly urge upon surgeons of the United States upon an infant whose surgeons of the upon the predominance of the most eminent to quote again from Tidy "We strongly urge upon surgeons of the United States upon an infant whose surgeons of the upon the medical men (1) Not to induce premature labor or sexual organs were imperfect with predominance of abortion without the most mature consideration. Not to undertake it until after consultation with a for the child's future welfare and happiness it would second practitioner (2) In any case to have the hard the ha full consent, in writing if possible, of the husband or it should retain them under such an imperfect devel guardian "

The trouble that may accrue to the physician from Taylor, page 592, where he says "This practice has been condemned as immoral and illegal, but it is impossible to admit that there can be any immorality in performing an operation to give a chance of saving the life of a woman when by neglecting to performit it is almost certain that both herself and the child will perish Any question respecting its illegality can not be entertained, for the means are adminis tered or applied with the bona fide hope of benefiting the female, and not with any criminal design" Yet he says further on "By non-observance of these in the event of the death of the woman or child ex poses himself to a prosecution for a criminal offense, Within a recent period several practitioners have been tried upon charges of criminal abortion who had obviously neglected to adopt those simple measures of prudence, the observance of which would have been at once an answer to a criminal charge Because one obstetric practitioner of large experience may have frequently and successfully induced premature labor without observing these rules and without any imputation on his character, this cannot shield an

other who may be less fortunately situated" The physician must also remember that he is more liable to have a charge of criminal abortion brought against him when the woman is single than when she is married, the law in such a case regarding the oper ation with extreme suspicion, yet the need for its performance may be as imperative in the case of the husbandless female as of her upon whose marriage was set the seal of both Church and State

The nature of many diseases and injuries is such as to compel the medical attendant to quickly deter mine his course of action entirely from a medical or On the other hand, there are surgical standpoint cases in which he must pause long enough to consider his treatment from other standpoints as well as those of medicine and surgery, e g, where mantal rights are involved, as when a lacerated cervix uteri is closed to a pinhole to prevent further conception, at the request of the patient, but without the consent of the The operation if successful would, I think, make the gynecologist liable to an action at law, for procreation being one of the principal objects of matrimony, the closing of the wound when not con tra-indicated by physical conditions, should be made in accordance with that doctrine, so, also, where the work of the surgeon may impair or destroy the social, civil and political rights of one of those most unfor tunate of beings, hermaphrodites

A striking illustration of the possibility of so doing (3) In any case to have the be better that it should have no testicles at all than

opment of the other organs He therefore removed them by operation from the labia or divided scrotum, and had the dissatisfaction to find that they were perfectly formed in every respect, and that the spermatic cords were quite natural Three years subsequent to the operation it was found that emasculation was complete, for the disposition and habits of the being had materially changed and were those of a girl, she was found to take great delight in sewing and housework, and she no longer indulged in riding sticks and other boyish exercises" Thus from regarding the operation from only one point of view, a creature already accursed by fate, is altogether deprived of those rights and privileges which by reason of the predominance of the male sex would have remained to him, such as right of suffrage, privilege of holding office, and the possibility of obtaining the higher wages from which females are excluded

In offering some of the above suggestions I may have seemed to disregard the warning of the proverb about letting sleeping dogs lie, but daily occurrences proving that their sleep is of the lightest, I have remembered the greater wisdom of taking such precautionary measures as will render it impossible for the

aforesaid dogs to bite should they awake

THE NEED OF MEDICAL LEGISLATION

There has lately been manifested, at the meetings of the Society of Medical Jurisprudence and State Medicine of New York, a laudable disposition to discuss in a practical manner such questions as arise from the ordinary, as well as the more unusual cir cumstances of daily life I would recommend to this Section to give to such questions even greater and more critical consideration, as the discussion of such subjects in a common sense way, by these bodies, will surely do something towards stimulating the now tardy and indifferent legislator to take measures to, at least, attempt to mitigate some of the more glaring evils that now exist either because of defective legislation, or from the absence of any laws bearing on them There is probably no lack which brings greater suffering to a larger number of people than the absence in many of our States, and the neglect of enforcement in others, of proper laws to regulate the practice of medicine The cries of the victims of ignorance and unscrupulous greed which come not only from one State, sympathy and aid of the law more powerfully than any individual possibly can

I will do our distinguished legislators the justice to say I believe if they were brought face to face, as kind that we can ever even partly realize physicians are, with the fearful suffering, often followed by death, of the victims of quacks and charlatans, they would exhibit at least a modicum of the interest and energy which they display when a bill is proposed which is likely to interfere with any of their privileges or pleasures, such as chicken matching, or other pursuits or amusements of a like elevated or intellectual nature In these declining years of the nine-

leaped space and made rapid communication possible, not only between the inhabitants of the same city or country, but so linked continent to continent that what occurs in one is, within a few hours, published in the newspapers of the world, one would imagine that the sceptre had been stricken from the hand of Superstition, her temples leveled in the dust, and her devotees converted to a purer and more whole-But not so She is as rampant and powsome faith erful to day as ever, her shrines are as numerous and her followers as blind The mares of her Tam O'Shanters may not be in such imminent danger of losing their tails, but the Tams are as credulous as was their rollicking prototype who so narrowly escaped Nan-The smoke of the fires that set nie's supple fingers her cauldrons boiling stifles the air of as many secret places as when the apparitions were called up to answer Macbeth's questions, or so many scaffolds in New England groaned with the burden of their innocent victims A despot, she troubles but little about improvement in methods of ruling her subjects. The creaking is as audible, the mechanism of her machinery as rude, her miracles as palpable frauds as when she herself was fresh from chaos, but, like death, she

gathers in the wise and the simple

One would suppose her cabinet performances and materialized spirits would not deceive a child, but that some of the brightest minds of the age have succumbed beneath their influence let our lunatic asylums bear witness Apparently, though, the assisting spirits are more accommodating now than formerly, for at one time they were wont to postpone their coming until the scent of the witches' savory stew was strong in the air But it has not been mentioned that the spooks who so kindly decorated the canvas held over lawyer Marsh's willing head by the fat hands of Madame Diss Debar were offered even a smell of It would seem that even the electric light cannot so illuminate the mind that there will remain no dark recesses in which false beliefs may lurk and breed With many of these erroneous conceptions it were futile for either legislator or medical man to attempt to deal until they have taken such form as is likely to be productive of serious harm either to the persons in whom they exist, or to those around them Of the many phases of superstition which have attained proportions that render them worthy of critbut from almost the entire land, should appeal for the | ical scrutiny, there is none so dangerous as that which makes its possessor the facile subject of conscienceless quacks and death dealing frauds I think it is only when attempting to grapple with a matter of this

> "How small of all that human hearts endure, The part which laws or kings can cause or cure "

Few persons dream of the extent to which quackery is practiced, or the hold it has upon many men and women who, one would imagine, were far above its influence Only a few exceptionally atrocious cases are brought to the notice of the public, the obscurity of some of the sufferers, and the reluctance teenth century, when, if ever, the human mind might of others to acknowledge that they have ever resorted be supposed to be not far from its zenith, when in- to such irregular sources, serving as safeguards for vention has proceeded from triumph to triumph, when the charlatans who torture them. There is no need the telephone, electric telegraph and cable have over- to pronounce on these creatures and their victims the

malediction Macbeth invoked upon the witches "In- ately skilful physician might have so assisted nature fected be the air on which they ride, and damned all those who trust them " Those who trust them are already damned.

A case in point was brought to my notice some A man and his wife, whose intelligence on many subjects is above the average, are living in a snug and tasteful home not far from Baltimore Several weeks ago the woman, who was several months advanced in pregnancy, miscarried Neither midwife nor regular doctor was called to attend her, and the neighboring women who sought to relieve her suffering with hot applications and other simple means were not allowed to continue their efforts, as both she and her husband believed she was under the influence of a witch's spell, and that such remedies would only increase its malignant effects. Instead of these a so-called magnetic doctor, who professed to be wise in the wiles of witchcraft, was sent for This distinguished gentleman, who, at the beginning of his medical career, united the profession of a huckster with the practice of quackery, and peddled paper thing to gain, uses the most deadly agents in a way pills and potatoes, witch's potions and charms, ban anas and fish from the same wagon, came with the cheerful alacrity characteristic of his class, bringing with him three charms, at \$3 each, which he disposed, as to him seemed best, about her person At each of his tri weekly visits he would turn her over on her face, and sit for half an hour holding his stubby fingers two or three inches above her spinal column, explaining that he did not dare to touch her, as the flow of magnetism was so great it would probably throw her into convulsions During one of his visits, upon her complaining of constipation and requesting some cathartic pills, he called for pen, ink and paper, wrote a few words on a narrow strip, rolled it into the shape of a pill, and made her swallow it, telling her it would have "the happiest, speediest and most gentle effect "

Not being properly attended at the time of the miscarriage, and the feeble contraction of the womb failing to expel the placenta, the woman lay fourteen weeks flat on her back, suffering the most excruciating pain, which was accompanied with a constant The retention of a discharge of blood and mucus decomposing substance was evinced by the sickening stench which made it almost impossible to remain in the room with the patient, and the absorption of the septic material into the system was manifested by high fever and delirium Complaining, during one of her lucid periods, of the weakening effect of the continued discharge of blood, the wretch told her he would bring her a prayer which she must repeat until the flow ceased I doubt if there can be a more pitiable sight than this poor woman, almost at death's door from septicæmia, scarcely able to lift her burning hands to her brow, suffering such agony as might suffice to kill the strongest man, yet, with the tena city of desperation, striving, even through the vagawill bring her surcease of pain, and with parched lips such as could be acquired in sweeping the office, and ries of delirium, to hold fast to that which she hopes in almost inaudible whispers repeating again and again emptying spittoons, after his employer's death hung fragments of a supplication but little better than wildest out his shingle, and commenced the practice of medgibberish Yet this is a case in which even a moder- icine on his own account

that in a few days the woman would have been restored to her usual health, whereas she is still confined to her bed with small prospect of recovery

The above is a fair sample of the methods em ployed by this, either deluded imbecile or unscripulous scoundrel, so successfully he has been able to give up the huckstering branch of his business and devote himself exclusively to the cultivation of his magnetism, and the sale of his charms and magic powders There is no better illustration of the proverb, "Fools rush in where angels fear to tread," than can be found in the reckless use by quacks and mountebanks of powerful and dangerous drugs which even the most experienced of our profession handle with the greatest caution A physician of good standing will, in using such remedies, be influenced not only by a conscientious regard for his patient, but by the effects which any mistake or lack of judgment may have upon his own reputation But the unli censed charlatan, having nothing to lose, and everythat would appal the community, were it known. The country stands aghast at the devastation caused by some fearful epidemic, yet this is usually short in duration, and it is doubtful if the number of its victims equals the number annually slain by criminal incompetency, yet there is comparatively little effort made to stop the nefamous practice

An octoroon who flourished some time ago in Baltimore was in the habit of openly boasting that she would take any drug, regardless of its nature, that she could obtain from any source, put it in a bottle and, after pow-wowing over it awhile in the presence of the credulous fools who visited her, would demand, and generally receive, from \$5 to \$20 Many of the itinerant quacks are the vilest scoundrels on One of these villains, travelthe face of the earth ing from State to State, pitching his tent on vacant lots of cities, towns and villages, dressing in fantastic costume, having a band of music and Indian dances, doing anything to attract a crowd to which he could sell his vile nostrums, stopped at a small town in While there he was consulted by some Maryland foolish girls in regard to some ailments peculiar to He insisted upon making an examination, after which he told them it would be impossible to cure them unless they would allow him to have sexual This is a case in which every intercourse with them decent man would like to unite in himself the offices of jury, judge and executioner, yet this fit subject for the gallows sells his poisons, offers his atrocious insults, and goes on his way unmolested

A school or college must be of good standing to be allowed to issue diplomas, but any ignoramus can hang out a sign and otherwise advertise as a doctor without having suitably prepared himself to perform the duties of one In Baltimore an ignorant man, who had served a doctor in a menial capacity, and had had no opportunity to gain knowledge except

Another plea which should be urged is that such persons prevent patients from receiving the service of skilful practitioners A man who had been injured by heavy lifting was attended by one of these incompetent persons After the patient's death, which oc curred on the third day after the date at which the injury was received, this individual very coolly stated that he did not, while visiting the man, know what was the matter with him, nor did he know what had caused his death Under such circumstances a regular practitioner, obeying the precept that teaches "in the multitude of counselors there is safety," would have called other doctors in consultation, but ignorance is generally autocratic There should be a statistician appointed by the State to investigate and report the history of the numerous wonderful cures and operations advertised not only by quacks, but also by physicians of good repute If this were done, it would be found only too frequently that, while the fame of the performance was being blown abroad, the subject of it was resting under the sod. It is due the public that the per centum of survival, in such cases, should be given, as false statistics are calculated not only to deceive the laity, but also to mislead the profession

skill displayed by the operator, and the success that attended the performance of a rather uncommon operation upon an inmate of one of our hospitals, was published in most of the papers of the country, but the trifling fact that the woman operated on died in a few hours after was not mentioned The class that cures the disease regardless of the effects of the method used, is quite too large

A report was made to me of a case in which a Pennsylvania so-called specialist was to receive \$100 and his traveling expenses if he succeeded in eradicating a cancer in the breast of a Baltimore County woman After her death, which ended three months of terrible torture caused by the application every few hours of powerful escharotics, he demainded and obtained the sum promised, on the ground that he had extirpated the cancer, though the process employed had prob ably caused the death of the patient, and he had ex pected that it would when he undertook the case, as experience had taught him that a diseased condition of various organs was generally produced by such eradication, but, being a specialist, he had nothing to do with that He was only prevented from getting a photograph of the denuded ribs by reason of the light in the room not being sufficient to enable the photographer to do his work, and the woman was quite too ill to be moved to a lighter apartment expressed great regret at the failure, as he wished the picture to exhibit as confirmatory evidence of his skill and success

STATE MEDICAL EXPERTS

There should be competent men also appointed by the State, at adequate salary, to serve as medico-

whether willing or not may, at any moment the law sees fit to specify, be required to go on the witness stand in the character of a medico legal expert that place, unless he be well posted in forensic medicine, and possess the coolness and self reliance required to repel the onslaught of the lawyers, his reputation for knowledge and skill may receive in twenty minutes injuries that cannot be repaired in a lifetime There are no stitches, however skilfully set, which will so bring together the jagged edges of such wounds that no disfiguring cicatrix will remain, like the mark set on Cain, to be seen and known of all men dian takes greater delight in the agony of his victim than the average lawyer takes in the suffering of the medical witness under the treacherous thrust of the cross-examination He seems to avenge on him the bitterness of all the potions and the griping of all the pills that have gone down the legal throat from the birth of law to the time of the trial As the red savage whirls his bloody tomahawk and threatens one part of his writhing victim, and then, with lightning speed, strikes where least expected, so increasing the torture of the certain blow by the uncertainty as to where it will be inflicted, so the legal gentleman flashes before the strained senses of the medical wit-Some months ago a most eulogistic report of the ness, fettered by the law which, forbidding retaliation, leaves him at the mercy of his persecutor, the keenedged weapon of the law, and the blow falls always where least expected A contest of this kind, if contest it can be called, where the advantages of freedom and special training are mostly on one side, is as unfair as would be an encounter between the trained pugilist and a man not only ignorant of fistic science. but also handcuffed and gagged The arena of pugilism is not the only place where freedom and nice training will do more for one than brains alone service demanded by the court and for which, in many States, no adequate compensation is allowed, frequently requires an amount of investigation and a consumption of time the physician can ill afford to A case of this kind came under my notice a few days before I began this paper A young medical friend of mine, after having rendered three months of conscientious, gratuitous attendance to a patient who was supposed to be suffering from the effects of a blow, and a kick, learned that he would have to go into court as medical witness Thus, at the time when he had reason to suppose that his work of charity, at least as far as that patient was concerned, was ended, he is obliged to begin a tedious investigation of the physical and pathological conditions and habits of life of the man prior to the as-He must patiently inquire into many apparsault ently trivial matters which, nevertheless, may prove to be of the utmost importance in elucidating the history of the case This information must be obtained from the patient, his relatives, or friends, who will naturally endeavor to conceal whatever may be prejudicial to the patient or favorable to the assailant. Yet, when brought into court, the doctor will be exlegal experts on occasions when the aid of such is pected to be able to state with the utmost exactness necessary I know this point has been urged before, how much of the man's suffering was the result of the but I that I then the point has been urged before, how much of the man's suffering was the result of the party of his babits of his party of the pa but I think the urging should be continued until suc- injuries received, of his habits of life, or of the pacestal and the urging should be continued until suc- injuries received, or his habits of life, or of the pacestal and the lawyers. cessful, as it is exceedingly unjust that any physician, thological conditions which, according to the lawyers,

may, might, could, would or should have existed prior to the assault. If my friend fare on the witness stand as many of his medical brothers have fared before him, he will not be there long before he will find, though ostensibly called there to state simple facts relating to the case, the law will strive to utilize him as an expert, and the time which should be spent by him in assisting in elucidating the truth, will have to be expended in defending his own reputation for knowledge and skill against the imputations of the lawyers

WHEN ARE DYING DECLARATIONS ADMISSIBLE?

To be admissible, "dying declarations must be made in extremity, when the party is at the point of death, and every hope of this world is gone " consideration of the fact that the mental and physical conditions of the person at the "point of death" are usually such as to render the reliability of his statement extremely doubtful, no matter how conscientious he may be, there is no time when justice more imperatively demands the presence and aid of an intelligent, experienced physician, than when the law is endeavoring to fasten the crime of homicide legislatures and the meagre facilities afforded a large upon a prisoner through the identification and dying declaration of the victim of deadly assault, or of foul As in many instances the fate of the prisoner rests mainly upon such evidence, no means should be left untried which will assist in determining its The nature of many agents used to destroy life, and of injuries which result fatally, can be alleged as sufficient reason why, when it is necessary to bring the accused into the presence of the injured person to be identified, the State should, if possible, have a physician present whose duty should be to make a careful examination of the declarant's mental, visual and other conditions For, at the time the declarant may be trying to identify the prisoner, his intellect and vision may be so disturbed by cerebral anæmia resulting from the loss of blood as to lead to the gravest mistakes Also because the insidious intellectual changes which are sometimes the sequence of cranial injury may convert the best friends into the bitterest foes, and yet be undetected by inexperienced persons, though they would be suspected by the doctor from the nature of the injury

Another fact likely to be unknown to a large majority of the laity is that, in anæmia resulting from loss of blood, the upright or semi-recumbent position may render the declarant less capable of making a trustworthy statement, whereas the horizontal position, by encouraging the flow of blood to the brain, would increase mental activity and thus tend to promote the ends of justice

The effects of the kind and quantity of stimulants given so freely at such times should also be noticed, as these not only vary greatly in different persons, but vary greatly at the different periods at which they are administered to the same person

Where a woman is dying of septicæmia consequent upon criminal abortion, there may be light delirium, slightly confuse the memory and distort the imagina- ment of such knowledge are much greater than in tion, yet not be discovered by persons unfamiliar sparsely inhabited places, who are totally ignorant

with the concomitant symptoms and pathological conditions present.

PREVENTION OF CRIME

How to prevent crime has been a momentous problem in the past and is still one. The higher education of the masses is generally urged as the best solution that can be offered When this higher education no longer means, as it mainly does at present, the teaching in a superficial manner by our educational institutions of many comparatively useless branches and so called accomplishments, but such special instruction and training as will qualify our boys and girls to grapple successfully with, at least, a few of the numerous practical questions which will In | inevitably confront them, then it can be presented as a potent agent towards the promotion of the desired "Ignorance," it is said, "is the parent of crime," but the doctrine of heredity does not exempt the offspring from punishment. In many instances, arraignment and conviction are the first intimations persons have that the deeds committed are crimes

The limited publication of the laws enacted by our majority of our people to acquire knowledge of many offenses at common law are fruitful sources of crime and suffering, as well as of great expense to the State. If the teaching of Medical Jurisprudence were rendered imperative in our schools it would do much to prevent crime, since our youths, both male and female, would not only be taught the nature and enormity of various crimes, and how easily from want of this knowledge persons may innocently become accessory thereto either before or after the fact, but its doctrines would be carried home by them, and thus kept fresh in the minds of the people If the introduction of Medical Jurisprudence in our schools did no more than teach our girls the sanctity of their relation to, how best to promote the welfare of the life which they may bear within them, and the magnitude of the crime of attempting at any period, by any means, to compass its destruction, also the temble and lasting, if not fatal effects on the mother of any effort to destroy the fœtus, it is impossible to estimate the good that would be accomplished or the evil that would be prevented

There is probably no crime more common than fœticide, and none that is so frequently the result of Few of the many women that resort to ignorance it either to hide their shame, or because they are unwilling to endure the trouble and care of children, have any idea of the hemousness of the deed, of its effects on themselves, or the extent to which it would make them amenable to the law The ancient doctrine that up to the tenth day it is merely an egiluxio is still largely believed, and because of the prevalence of that opinion abortion produced within that period is not regarded by the masses in the serious manner it would be if its nature were better known are many men and women, even among the higher classes, and living in cities, where it is reasonable to suppose the opportunities afforded for the acquire

that the destruction of the fœtus during the earlier stages of gestation is a crime even in a moral sense, much less one of sufficient turpitude to render them

hable to criminal prosecution

Another advantage which should not be lost sight of, is that in teaching Medical Jurisprudence in our schools we will be instructing our future legislators in that branch of science and thereby preparing them better to understand the needs of the people, and to frame laws to meet them If a knowledge of forensic medi cine were generally diffused among the laity we would have laws to take cognizance of offenses against the mind which are liable to produce insanity and develop some of its worst types, known as homicidal and suicidal mania The law prohibits the infliction of corporal injuries and frequently punishes the inflictor, but against assaults upon the mind it at do not more frequently disable the assailed, unfit him him incapable of self preservation than do wounds of the mind Great mental irritation or distress pro duced by continued complaining, malicious tantalizing, persistent nagging, ceaseless importunities for things not in the power of the importuned to grant, or causeless accusations of immorality may lead to permanent impairment of mind and body Men and women have been driven to moral and financial ruin, to lunatic asylums, and to their graves, by the repining over the unpreventable, and whining for the unattainable of persons from whom the exigencies of life rendered escape impossible

The virtues of the persecuted have in some instances thrown up barriers which their distress could not overleap A man was observed sitting evening after evening in a saloon Some surprise was expressed at this as he neither drank nor sought the company of the other frequenters of the place, but sat by himself and seemed dazed and stupid Upon inquiry it was learned that he was a sober, industrious mechanic who had been driven to this state of melancholia by a querulous wife This is only one of numerous cases, the history of which would illustrate the need which exists of laws to protect against such attacks When such assaults are made by the husband upon the mind of the wife, or by the wife upon the mind of the husband, the interposition of the law is especially necessary, since when married it is more difficult for the persecuted person to escape In almost every contract except that of marriage the law protects the parties thereto from such breach or non observance of the terms as may be likely to evilly affect the contract. Then why should not the law afford a similar security to the parties to a contract of marnage, and enable either husband or wife to secure the interposition of the court, by injunction, or otherwise, to prevent the continuance or repetition of such acts as are likely to injure one party or both, or lead to dissolution of the marriage itself?

This query, with the preceding proposition, I now submit for your consideration

THE APPENDIX VERMIFORMIS, ITS FUNCTION, PATHOLOGY AND TREATMENT

Read in the Section on Surgery at the Thirty-Ninth Annual Meeting of the American Medical Association, Cincinnati, May 8, 1888

> BY HENRY H SMITH, MD, LLD, OF PHILADELPHIA, PA

In writing of "Intestinal Obstructions," Treves states,1 that "their importance may, in one way, be estimated by the circumstance that over 2,000 individuals die every year in Great Britain from obstructions of the bowels, exclusive of hernia " Dr Senn, of Milwaukee, also considers them of such consequence, that during the last eighteen months (January 1888) he has reported "one hundred and fifty operations performed on animals, for the purpresent affords but little protection, yet bodily injuries pose of studying the effects of the principal varieties of intestinal obstructions produced artificially " for the performance of his daily duties, and render Treves does not state what proportion of the deaths he speaks of, were due to disorders of the appendix, and Dr Senn's experiments have not yet been extended to this tube It is, however, widely known, that the appendix is sometimes a cause of constriction of the ileum, and that stenosis of its cæcal orifice, from inflammation of its coats, or concretions or foreign podies in its canal, frequently induces local and general peritonitis, peri cæcal abscess or Whether the starting point of the perityphlitis latter is in the appendix or the cæcum, is a question yet sub judice, but there is much evidence daily accumulating to show that it is the appendix United States, Dr J H Musser, of Philadelphia, states,3 "that appendicitis is in the origin of peri cæcal abscess, perityphlitis, and peritonitis in about 90 per cent, or perhaps a larger proportion, of such cases," and it is now, I think, generally admitted by surgeons, that perforations of the cæcum are rare as compared with those of the appendix

> In the Index Medicus, are references by 248 authors to disorders of the appendix, as the result of the appendicitis Of these cases, ninety four only are reported as due to the presence of foreign bodies Some of these authors detail several cases Lewis, of New York, furnishing forty cases of foreign bodies As seventy-six of these authors were phyalone sicians of the United States, the results of appendicitis have been widely recognized, though not so assigned by them Concretions and supposed foreign bodies, were found in about 30 per cent of these cases

Although so well and widely known, Lieberkuhn individual or joint interest or lead to impairment of having written "De valvula caci et usu processus Vermicularis" in 1739, and Herlin "De l'usage de l' Appendice Vermiformis," in 1718, this organ has not been as minutely studied in its relations to the

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¹Intestinal Obstructions its varieties with their Pathology and Treatment by Frederick Treves F.R.C.S. London, Phila. Edition, Preface 1884

Preface 1884
2 An Experimental Contribution to Intestinal Surgery with special reference to the Treatment of Intestinal Ob tructions. By Aicholas Senn M D. Milwaukee Wis
3 The Morbid Anatomy of Peri-cæcal Inflammation by J. H. Musser M D. Phila. Journal American Medical Association page 71,

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4The Diagnosis of Peri-excal Inflammation by Wm. Pepper, M.D. LLD Phila., Journal American Medical Association, page 72,

alimentary canal and the process of digestion, as the jection, but at other times it occupies half or more of fatal character of its disorders demands, and though the calibre of the opening, and interferes with a free all present, doubtless recall the general anatomical communication between the cæcum and the appendix relations of the appendix, perhaps its special structure in either direction Sometimes opposite to this and its probable function are not so well understood Indeed, there is reason to think that many practitioners hold the opinion of a recent writer and teacher who states, "we have this little organ (appendix) singularly useless physiologically, placed in a singularly unfavorable position anatomically, and steines or excrement stones) is unknown," and this so formed that escape of its contents is very difficult, whilst it is very prone to become diseased in

A few words on the special anatomy of the appendix may suffice to bring the subject of appendicitis and its results, to the notice of this Section, and elicit such discussions as will tend to show the surgical opinions on the subject, and aid in the scientific treatment of a serious pathological condition that is daily creating increased interest cæcal abscess and perityphlitis being often only symptoms of a pre-existing disordered action in the appendix

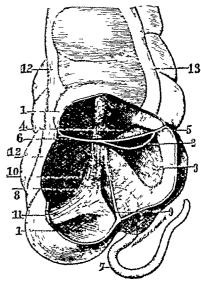
SPECIAL ANATOMY OF THE APPENDIX

The appendix cæci, or vermiformis, in man, varies in length from six or eight to ten centimetres, or from two to six or nine inches, the cæcum being only one and one-half to two inches long, and widely expanded The calibre of the appendix, is in breadth internally, about the size of a goose-quill It is not a straight tube, but is generally slightly flexed or curved on itself, and varies in its normal position and direction, being sometimes adherent to the left and posterior face of the cæcum and extending upwards nearly to the gall-bladder, or under surface of the liver

Its blind extremity points nearly always towards the spleen, though it may dip down into the pelvis and become adherent to the right broad ligament of the uterus or to the right ovary, these variations of position being due to the length of the fold of its peritoneal attachment to the mesentery Sometimes its free end becomes adherent to some other organ, and is twisted as a loop around the small intestine as a constricting band, causing obstruction or strangulation of the involved bowel At its base, the ap pendix opens obliquely into the posterior and inner side—but not the lowest point of the cæcum—just below and on the same side as the ileo-colic valve. whilst its summit or blind end, is rounded and firmly On slitting open the canal of the appendix, we may note the comparative thickness of its walls, and that its mucous coat and sub-mucous tissue, is well developed, and by a semi-lunar fold that partly conceals the cæcal orifice, forms a sort of valve or ridge, that opposes the passage of solids from the cæcum to the appendix, fæces, etc, being forced into the appendix mainly by straining or by vomiting

Speaking of this valve of the appendix Henlè says "that as a rule, this duplicature of the mucous membrane is sometimes only a small border or pro-

valve and deeper in the appendix, there is a second valve-like projection" Gerlach states "that in elderly people, these valves of the appendix are atrophied or shrunken, and this is the reason why confirms the opinion that perityphilitis is compara tively rare after 40 years of age "Typhlitis is most common between 16 and 35" Appendicitis is mostly met with before the 45th year, though sometimes, as in a recent case in New York, the patient was 58 years of age and had sloughing of the appendix, from a concretion, abscess and general



Its inferior duplicature
Its superior fold as seen on the front

The anterior and internal edge or bridle of the valve
Its longer and posterior bridle
The appendix vermiformis as often found, curved and pointing to spleen
Its round or trumpet shaped mouth

8 Its round or trumpet shaped mouth
9 The semijunar fold of its mucous coat, which partly closes the
orifice of the valve of the appendix. The course of the appendix to arids
the opening in the execum is indicated by dotted lines
10 The longitudinal museu ar fibres of the posterior external band of
the colon which are continued under the valve and constitute the longitudinal fibres of the museular coat of the appendix, and cause its curved
shape when contracted. These fibres force the contents of the appen
dix into the execution.

dix into the cœcum

11 The anterior longitudinal band of the colon

12 Its prolongation on the ascending colon

13 The posterior longitudinal band of the colon

14 Its prolongation on the ascending colon

15 The posterior longitudinal band of the colon It will be nonced that there is a pouch of the cœcum below the level of the orifice of the

rependix, so that nothing can drop into the appendix.

Copied from Prof Sappey's Anatomy, Paris, 1874

The coats of the appendix are the same as those of the other intestines, but its walls are often much thicker, and vary in thickness according to the contraction or diminution of the length of the tube its muscular coat, the longitudinal fibres predominate over the circular ones, and are apparently a continua tion of some of the fibres of one of the longitudinal The action of these longtudinal bands of the colon

⁵Reported nine inches by Dr T G Morton, Philadelphia ⁶Handbuch der Systematischen Anatomie des Menschen Dr J Henle, page 278 Eingeweiderlehre, 1862

⁷ Gerlach Abhandl der Erlangen Physical, Medicia, Societat 11,7 ⁸ Ziemssen's Cyclopedia of Med Vol viii.

fibres of the muscular coat of the appendix, diminishes its length and gives it a curved or vermicular action, thus forcing its contents into the cæcum whilst relaxing and opening the cæcal onfice, and favoring the escape of its secretion (Dried) Specimens) and (Fig I) The power of the longitudinal fibres of the colon thus alluded to is marked, as has been shown in the horse at the veterinary school of Alfort, where bullets, marbles, and other foreign bodies swallowed by the animal, were quickly elevated in the ascending colon by muscular contraction In a case of artificial anus in the Pennsylvania Hospital, Philadelphia, reported' by Dr Hunt, the vermicular movement of a portion of the posterior band of the colon which is continued into the appendix, was so strong, that a finger introduced into the opening was firmly grasped by the muscular coat, and small articles were drawn up the ascending colon with a great degree of force

"The follicles of Lieberkuhn" or the tubal glands, are numerous, and found in the mucous coat of the The "agminated glands of Peyer" are appendix also well developed near the summit of the tube It is not settled that a gland or two of "Brunner" is not also present In the Herbivora and omnivorous animals, these glands of Peyer are more developed than in the Carnivora. Prof Colin of Alfort, regards them as secretory organs, and of enormous dimen-He says10 "A gland of Peyer sions in the Rodents of the length of a finger of a glove, lines their appendix throughout its entire length Sometimes he also found the appendix free from food and entirely full of a beautiful greyish opaque or transparent liquid, not found in other portions of the small intestines, but was sometimes found in the colon when the solitary follicles were very closely developed fluid is similar to the mucous found in the appendix When stenosis of the canal of the ap pendix occurs, and the escape of its secretion is prevented, the appendix may become distended to the size of the fore finger or larger, creating a "Mucocele" a case of which is reported" by Feré the new born infant the canal of the appendix is relatively larger than in the adult, and often contains Meconium whilst in the adult, small hard particles of solid fæces resembling the dung of mice, or like raspherry seeds, may become the nucleus of concretions that frequently are mistaken for foreign bodies that have been swallowed In the post mortem evaminations of bodies, accidentally in the dead house of the Pennsylvania Hospital, concretions were found in each as shown in the specimens *

FUNCTION OF THE APPENDIN ---Whilst the structure of the appendix has thus been studied, its Function yet remains in doubt Indeed, several writers regard the function of this organ as of but lutle importance, an appendix vermiformis being present only in six varieties of animals Dr Chapman, of Philadelphia, says (a) "That a true ap-

pendix vermiformis is only found in Man, the Gorilla (b), Gibbon (c), the Chimpanzee, the Orang (d), Wombat (e), and Capybara (f), and that in many of the mammalia, the cæcum (which corresponds to the cecum and appendix together in man) is large and often very long, that in the mammalia generally, the size of the cæcum is in an inverse ratio to that of the stomach In the Capybara or Water-Pig, whilst its cæcum measures twenty-six inches its stomach measures ten inches, whereas, in man, whilst the stomach measures latterally from thirteen to fifteen inches, his cæcum is only from one and one half to two inches, and his appendix vermiformis measures Chapman, therefore, refrom three to six inches gards the appendix in man as having no particular significance or utility "

Morgani, Jno Hunter, Meckel, Haller, and others, also report authentic cases in men, where the appendix was wanting, and hence, they ascribe little value to its function Nevertheless, as it exists in connection with the alimentary canal, and as its disordered action disturbs digestion to a degree that often results in death, it may influence our treatment of its diseased condition, to recognize, if only on imperfect proof, its healthy connection with the process of digestion as seen in animals as well as man

In studying digestion in man, we note that as the chyle passes from the ileum through the ileo-colic valve, it rests or settles into the lowest portion of the cæcum as a liquid substance, on which the secretion of the appendix is poured out As the liquid elements of the chyle are rapidly absorbed, a thickened mass is seen to form and undergo chemical changes, analogous to a solution of gum, and this liquid was being transformed from an acid to an alkaline substance with the evolution of hydrogen, nitrogen and other gasses that create a marked fæcal odor, not ordinarily so marked in the small intestines absorbent action of the cæcum is accomplished through its mucous coat, which is furnished with numerous follicles or "cryptæ minime," of Meckel The great uniformity of these follicles in the colon, Horner states,12 "enable us to count them with certainty thro' the microscope In the cæcum, they are found at the rate of about 400 for every one-eighth of an inch square, and admitting the entire area of

Reports of the Pennsylvania Hospital Vol. 1 page 164 Phila

delphia, 163
10 Colin Physiologie Comparée des Animaux Paris 1855 page 91
11 Progres Médical Paris 1877 1 page 53
14) Transactions Philadelphia Coll of Physicians Vol 9 3rd Ser

⁽b) Gorilla Eats fruits seeds and the young shoots of plants (c) Gibbon Anthropomorphous Monkey is omnivorous but prefers

⁽c) Gibbon Anthropomorphous Monkey is omnivorous but prefers fruits and roots.

(d) Orang Eats meats but prefers fruit
(e) Wombat (Phascolomes) lives on vegetables
(f) Capybara Feeds on grasses

*(Note.—Some notes on the vermiform appendix Received April 30 1888 from Dr. Henry F. Formad Demonstrator of Morb d Anatomy in the University of Pennsylvania and as Coroner's physician largely occupied on post mortem examination.) Received April DR HENRY H SMITH Philadelphia

DR HENRY H SMITH Philadelphia

Dear Doctor — From my notes upon cases and studies upon the post mertem table. I found that you are perfectly correct in your observation that the vermiform appendix is proportionally much larger in infancy than in adult life. Microscopic examination also confirms your observations on the vermiform appendix, with all the glandular elements peculiar to the small intestine save the Brunner's glands and that it evidently contributes to the functions of digestion. I have very frequently seen typhoid and tubercular ulcerations and catarrhal changes in the vermi form appendix as a part of a general disease of the mucous membranes of either the large or small intestines. The average length is from three to seven inches—the length being greater in the colored race and relatively greater in the Germans and Irish than in other nationalities. Excal matter and concretions are exceedingly common in the vermiform appendix surely much more common than is generally he'd Yours respectfully Henry Formad I Special Anatomy by Win E Horner VLD Philadelphia Volid page 57

the colon to be 500 inches, and that 19,200 of these follicles exist in every square inch, we have the extraordinary number of 9,620,000 muciparous crypts or absorbing points, in connection with the underlying | cumulation of its secretion, to distention, ulceration, veins and arteries of the large intestines cæcum alone creates marked changes in the chyle soon followed by pus, and abscess in the right iliac by the absorption of its liquid elements through the region, especially in the loose connective tissue blood-vessels and crypts just alluded to, is well It is not therefore surprising that this very vascular structure of the cæcum should soon participate inflammatory changes induced by disordered action of the appendix which open into it "

That the appendix exercises some influence on the course of the tears from the saccus lachrymalis action of the cæcum in digestion is quite probable, as its mucous coat differs very materially from that of ing that the function of the appendix is to aid digesthe cæcum and colon in the arrangement of its capillaries and mucous crypts, as shown13 by the minute injections of Neill, of Philadelphia, in 1851, whilst Gerlach states 4 "that the intervening spaces as would be proper in any catarrh of a mucous mem between the crypts of the appendix are so prominent, as to make them look like small bridges" a marked anatomical difference With this vascular structure, we may well suppose that the secretion of the appendix is free, and differs in some way from that of the cæcum Perhaps it is the source of a lactopeptone mixed with a large amount of mucus and some phosphates or carbonates of lime, that in some way modifies the formation of the fæces, and by its mucus secretion facilitates their passage up the ascending colon, hence, an early symptom of appendicitis is constipation The presence of an appendix vermiformis in certain herbivorous animals and its absence in the carnivora, would also seem to indicate that this organ has some influence on the digestion of vegetable matter Tiedman and Gmellin, long since observed that the gastric juice of the herbivora, possessed this power, whilst that of the carnivora, (that have no appendix) was not sufficiently active to destroy coarse vegetables, cereals or

The term "gastric juice" thus employed by them, is not limited to the secretion of the glands of the stomach, but includes the secretion of the liver, In the Carnivora pancreas, and intestinal juices that have no appendix, the pancreas is said to be comparatively small, and though participating in digestion, it is well known that both they and the appendix vermiformis can be excised without materially impeding digestion, thus Brunner in 1673, removed the pancreas from eight dogs that continued to live varying periods, their faces remaining normal, and Prof Colin, " of Alfort, in 1857, removed portions of the pancreas in six dogs, the animals subsequently preserving their health and spirits and increasing in flesh

Whatever may be the part played by the appendix vermiformis in connection with digestion (and its function certainly requires further, investigation), it

is evident that we have in it a mucous coat hable to catarrhal inflammation, under which changes are created that lead to stenosis of the tube, to the ac That the and perforation of its coats, and to peritonitis, that is around the cæcum, a symptom often spoken of as pentyphlitis. This catarrhal inflammation or appendicitis, resembles in its results duodenitis with obstruction of the ductus communis choledicus, or of the ductus ad nasum with obstruction of the

> As surgeons, are we not then justified in suppostion and the onward course of the fæces from the cæcum, and consequently, must we not in the early stages of appendicitis, carry out the same treatment brane? In other words, should we not strive to overcome the early constipation and restoration of the natural secretions of the bowels by emptying the cæcum, and favoring increased peristaltic action? Or, when this fails, promptly overcome the obstruction by an operation?

PATHOLOGICAL CHANGES IN THE APPENDIY VERMIFORMIS

The varying position of the appendix has been noted by Treves, of London, Fitz, of Boston, Formad, of Philadelphia, and several others Its most usual position is behind the ileum and its mesentery with the tip pointing to the left, or behind it on the inner ot left side of the cæcum, pointing directly upwards and often adherent to the colon It may be found in a right inguinal hernia is It may vary in size as well as position, being sometimes small and atrophied, or dilated to the size of a finger or of the ileum," dilacation being more common than atrophy It usually contains mucus or specks of hardened fæces, but not unfrequently presents concretions or calculi that are adherent to and distend the tube These calcult or supposed foreign bodies that are swallowed, according to an analysis recently made at my request,20 were composed of calcium and phosphor ic acid (Ca_s) (PO₄)₂ = Ca₃H₂, (PO₄)₂ = CaH (PO₄)₃, and did not contain any cholesterin Another small specimen, (b) weighing only 80 milligrams, left about 6 per cent of ash, consisting of calcium phosphate Its struc with a small amount of carbonate of lime The examination of a second ture was laminated and larger specimen by Dr Leffman gave the same results, phosphate of lime and no cholesterin In specting a section under the microscope, I found a conglomerate structure of yellowish brown atoms, united by apparently condensed mucus specimen, at first supposed to be a cherry stone, was examined microscopically by Dr Guy Hinsdale, of Philadelphia, and proved to be only impacted faces

¹³ On the Structure of the Mucous Membrane of the Appendix Vermi formis, Cæcum and Colon, by John Neili, of Philadelphia, Medical Examiner, Vol vii, N S, page 85, 1851
14 Gerlach Abhandleder Erlangen
15 Dictionnaire de Médecine Tome x Paris, 1835, page 348
16 Physiologie Comparée des Animaux Par Colin d'Alfort. Prof
Ecole Vetermaire Paris, 1886, page 882
17 Opus Citat

¹⁸ Pathological Society London, vol xxv, 1874
19 Dr T G Morton has reported by Deputy Surg Gen Marston
70 MS of Dr Guy Hinsdale, Curator, of an analyses of a concretion
from the Mutter Museum, made by Dr Henry W Cattell Assistant
Demonstrator of Chemistry, University of Pennsylvania The access (b) Analyzed by Prof Henry Lessman, MD, of Pennsylvania
Polyclinic

It gave a reaction for magnesium, which the others to a retention of its secretion, not infrequently re-

Blood, fæces, seeds and substances swallowed, as shot and pins, and entozoa or lumbricoides are also occasionally met with in the appendix, which, inducing inflammation, lead to various disordered conditions Thus, Ashby reports a pyemic abscess of the liver as secondary to ulceration of the appendix resulting from the impaction of a pin

Joffroy reports the perforation of the appendix by a pin, symptoms of typhoid fever, peritonitis and

Audouard," a perforation of the appendix, perinephritic abscess of the right side and consecutive empyema after perforation of the diaphragm by the pus

Becquerel²⁴ mentions the issue of lumbricoides into

the appendix

the umbilious occasioned by a large pin found in the

William Pearson, Jr, reports ulceration of the appendix, portal phlebitis and multiple abscesses of the liver

Freeman,* an abscess of the appendix followed by phlebitis of the left leg

Bontecous relates three cases of abscess and pelvic peritonitis from perforation of the appendix.

Claiborne, an abscess of the appendix opening

Thornton, of the appendix and fatal pentonitis, produced by an orange seed (?) or what was supposed to be such

Mason reports perityphlitis with perforation of the appendix, rupture of the wall of the abscess, causing general peritonitis and death seventy four days after the abscess had been freely opened These are but a few of the well recorded cases of the results of appendicitis

For these and previous references I am indebted

to the Index Medicus

The glands of Peyer in the appendix may become the seat of tuberculous deposit, softening, ulceration and perforation, as is sometimes seen in phthisis pulmonalis, or there may be a perforation of the appendix from softening and ulceration of Peyer's glands ın typhoid fever Great changes in the walls of the appendix sometimes result from appendicitis ulceration supervenes, the walls and the canal may become contracted and indurated, the appendix being so shortened as to be only 1 or 2 inches long, giving the operator the impression of its being a gland or neoplasm, but a careful examination with a probe will usually detect the canal of the appendix.

The stenosis of the canal of the appendix, leading

the nucleus of which may be a speck of hardened feces around which the mucus collects, receiving in addition a deposit of phosphate or carbonate of lime. As the liquid is absorbed, the layers of the calculus become denser and it is moulded to the shape of the canal, impacted, and often firmly held in place Sometimes several calculi, from the size of a raspberry seed to that of a date or olive stone, for which they may be readily mistaken, are also seen Whilst writing this, I received from Deputy Sur-

sults in the formation of a calculus, as before stated,

geon-General Marston, of London, his report to the British War Office of the meeting of the Ninth International Medical Congress In this I find his opinion corresponds with my own Writing of appendicitis and the cavity of the peritoneum through a perforation of ulceration he says 31 "These are often described in the text books as due to the introduction of foreign Mestivier-s speaks of a tumor near the right side of bodies into the canal, but in my experience, while such may be present, they are not always so from tuberculous affections of the glandular structures of this part of the bowels, all the cases I have seen have been of a similar character The canal contains a substance in shape and form like a date stone, fairly dense, but capable of being cut or indented by the finger nail, of a brownish or yellowish brown color, formed apparently as follows An insignificant fragment of fæcal matter finds its way into the canal of the appendix vermiformis, catarrhal inflammation follows, with a fluid secretion holding phosphate in solution as a product of the inflamma-The fluid being absorbed, the phosphate forms a soft concretion, which becomes moulded to the shape of the appendix and in turn sets up inflammation, ulceration or sloughing of the coats of that part of the intestine "

SYMPTOMS OF APPENDICITIS

The symptoms of appendicitis are, in the commencement, such as indicate disorder of digestion, the disease appearing sometimes without premonitory symptoms and resembling a certain type of colic, with vomiting and griping pains, that at intervals attain great severity and double the patient up, to relax the abdominal muscles Sometimes the right thigh is flexed on the pelvis to relax the iliacus internus and psoas muscles The pain may be preceded or followed by vomiting, first bilious and subsequently stercoraceous Often there is pain towards the navel and a sense of constriction of the belly as in hernia, with continued constipation, or one or two movements of the bowels and then constipation symptoms, under the ordinary treatment of colic, may pass off and not return for several weeks, but after an uncertain period of weeks or months, the griping and vomiting return with more violence, though sometimes the attack is violent from the commencement, with evidence of disorder in the right iliac or lumbar region, the patient ignoring previous attacks and misleading his physician, unless closely When the symptoms are severe and questioned last for twenty-four or forty-eight hours, with tender-

¹¹ London Lancet, vol 11 649 1879.

22 Bulletin Société d'Anatomie 44 p 512 1869

3 Progrès Médical vol 1v p 416 1876

4 Bulletin Société d'Anatomie vol xvi p 169 Paris 1841-42

3 Journal de Médicine et Chirurgie et Pharmacie, vol x p 441

Paris 1759.

Transactions of the Medical Society of New Jersey 1879 p 279

1831 Newark N J

T Canada Lancet vol in p 268 Toronto Can.

23 Trans. Med Soc. of New York vol lxvii pp 137-139 Albany

1873

<sup>1373

**</sup>Claiborne American Weekly Louisville vol. 1 p 53

**American Medical Weekly Louisville 1874 vol. 1 p 305

²¹ Report on the Vinth International Medical Congress by Deputy Surgeon General Marston representing the War Department. London,

ness and evidence of local peritonitis, fever is apt to follow, the pulse counting 90 or more and the tem-perature reaching 102° or more, with indication of localized pain Free urination also is often a marked symptom The belly sometimes becomes tympanitic and percussion may indicate a degree of flatness in the right side or towards the umbilious, but flatness is not always noted, owing to gas in the colon Sometimes, under the relaxation of ether, it is possible to recognize by palpation a spot that is doughly or more resisting than natural Sometimes it is more prominent than usual, and sometimes it is possible by relaving the abdominal walls to circumscribe a swelling or tumor that is sensitive to the touch and corresponds with the position of the cæcum, but often there is only a thickening of tissue and no defined tumor As gas cannot escape from the bowels, tympanitis becomes more marked, fever increases, with pain, and symptoms suggestive of perforation of the bowels and acute pentonitis appear, but frequently we note only a slight acceleration of the pulse during the colicky pain and are liable to be misled by the temporary relief of pain and the absence of swelling or fluctuation

DIAGNOSIS OF APPENDICITIS

One of the marked difficulties met with in the treatment of appendicitis is a correct diagnosis, and this difficulty is so great that Mr John Hunter said it never could be satisfactorily made during life difficulty is often increased by the fact that the case is sometimes under the care of the family physician who only calls for the surgeon's assistance at the last When seen early appendicitis may be suspected from previous history, especially a continued tendency to constipation and the repetition at varying intervals of colic or vomiting. When a suspicion exists of the presence of obstruction in the appendix a correct diagnosis can only be arrived at by exclu-Thus, are the symptoms presented due to hernia, to volvulous, an intussusception, a tumor of the mesentery, or other organs Comparison of the symptoms of each of these with the history of the case will greatly aid the diagnosis Then, the patient being etherized, let careful palpation be practiced of the right iliac, hypogastric and even lumbar regions Sometimes a cæcum can be recognized as impacted, sometimes a doughy or imperfectly indurated structure can be felt in the right iliac or lumbar region, at other times there will be severe acute pains in these When any of these symptoms are recog nized, when the pulse and temperature permanently rises and there are the symptoms of peritonitis, the diagnosis may be regarded as sufficiently correct to justify surgical interference If laparotomy is performed and the diagnosis of pus, perforation, or thickening of the appendix is not found, the result will be often more favorable than the subsequent changes induced by appendicitis left to nature The use of an exploring needle is liable to serious objections and dangers and is not a useful addition to our means of diagnosis

PROGNOSIS

The prognosis of appendicitis is always grave, al the result uncertain, the patient's condition tests. bling that of one with a reducible hemia, lubbe at any moment to be strangulated Sometimes under early and appropriate treatment the symptoms d appendicitis disappear, the disease terminating appa ently in resolution and in the restoration of the pen staltic action of the cæcum, but in other instance, where there is hesitation in diagnosis and delay a treatment, the disease running on to a pentyphilite Discess, perforation of the appendix, artificial artis or cleath from peritonitis may be anticipated The program osis is always largely influenced by the duration of the symptoms, especially when local pentonibility of the symptoms, especially when local pentonibility of the symptoms, especially when local pentonibility of the symptoms of the only chance for a successful tempta stances offers symptoms on the only chance for a successful tempta tion, for as Marston timely operation such cases might be saved "

TREATMENT OUF APPENDICITIS omy and its after treat As the details of laparott ovor Morton and others ment are to be presented by he upon the Section the who will follow, I will only urgent tion of appendicib importance of an early recognizing treatment adapt and the carrying out of a preliminar chadministration of ed to intestinal catarrh, such as the grains are taken, 5 grain doses of calomel until 20 or 30 to stomacheen this being often readily retained by the of stimulating when it rejects liquids, the free use he, the adminimization of hypodermic doses of morphis ion as the interaction of hypodermic doses of morphis ion as the istration of hypodermic doses of morphis ion as the the griping, and the administration as so te of coda stomach can retain it, of a dose of sulpha or magnesia, the first heary professible. or magnesia, the first being preferable of the arguments against the use of purgate general peritonitis, but I am now speaking early stages of appendicitis, with probable stell in of the canal, and before perforation occurs stage saline purgatives relieve congested vessels, & crease the serous discharges, empty the cæcum, a favor the escape of the secretion of the apperdly An important part of the early treatment of appe dicitis is, to etherize the patient and by judiciou palpation or taxis, endeavor to recognize the ob struction and favor penstaltic action This palpa tion should be exercised with the same caution as would attend the attempt to reduce a strangulated After persevering for 48 hours with this treatment, if relief is not obtained, I would at once resort to laparotomy under strict antiseptic precautions

The line of incision in laparotomy for perforating appendicitis will be hereafter stated by Dr Morton, The incision in the median line, known as the Cæsar. ean section, is the ancient one, a successful operation in a so called case of ileus being reported by Dr Fuschnus in Hufeland's Journal of Feb 7, 1826 34 Whatever incision is selected should be prolonged until the appendix is found Let the surgeon first look for and examine the appendix for calculus or

²³ Report of 9th Congress by Marston, 1888, p 43 4 Eberle's Practice of Medicine

perforation, and the subsequent steps of the operation can be decided by circumstances Generally it is safer to ligate the appendix and cut it off close to the crecum, and I am satisfied that an early laparotomy offers less risk to life than a temporizing course, that is liable to end in suppuration of the connective tissue of the vascular structure of the cæcum and the development of a general peritonitis The simple evacuation of the abscess without amputation of the appendix does not secure the patient against a return of the trouble, as was proved in a patient shown me by Dr Morton, and will be reported by him

SUMMARY

The following summary is presented for the discussion of this subject

1 Appendicitis is characterized by constipation, vomiting, griping pain, and other symptoms of disturbed digestion

2 Appendicitis very frequently creates the pathological conditions that result in concretions, ulceration, pentyphlitis, or pericæcal abscess

3 When a diagnosis is made and a preliminary treatment of an intestinal catarrh fails to arrest ap pendicitis, laparotomy should be promptly performed

4 A delay in operating in appendicitis, as in strangulated herma, increases the danger of a fatal termination

APPENDIN

The following translation from Herlin's paper, as alluded to in the first part of this paper, was made and forwarded by A Asst Surgeon, D S Lamb, U S Army, but arrived too late to be incorporated in the text. As it exhibits the opinion of an anatomist on the "function of the appendix vermiformis" in 1768, it is now offered for consideration of the reader

Philadelphia, May 12, 1888

REFLECTIONS AND OBSERVATIONS ON THE USE OF THE VERMIFORM APPENDIX OF THE CÆCUM

By M Herlin, Demonstrator of Anatomy at the Port of Brest From Journ de Med Chir, etc., July, 1768, page 321

Anatomists have devoted themselves through all scribed, and demonstrating their mechanism though they have satisfied us as to an infinity of interesting objects by which medicine has profited, it is necessary to admit that they have not yet discovered all, and hat there are some parts the use of which is but little Since all that has been said upon the use of he appendix of the cæcum does not explain the estined, might we not advance what has not been the stercoral column upon its fundus at it is, if only to satisfy our curiosity

the use of the appendix of the cæcum, it is only that which assigns to it the property of being the reservoir of a mucous humor, flowing continually into the cæcum to lubricate this intestine, and protect it from the acrimony of matters lodged there, which has some truth in it, and which merits attention, but this is very far from filling the idea one ought to have of the utility of this part, as I will soon show with some anatomists, that the appendix of the cæcum is not larger in the fœtus than in the adult, (caused by the distension the part experiences from the presence of mucus retained in its cavity by the presence of the meconium) is to hazard an opinion that the inspection of the part contradicts, since we do not find it more sensibly charged with this mucous in early life than in the adult, and one observes on the contrary, that this little intestine is smaller in persons in proportion, as they are more or less constipated and subject to stercoral colics object on which anatomists have passed, and which demands attention, is that the cul de-sac of the cæcum is scarcely marked in the fœtus, but increases more or less with age, and about in proportion as the appendix in developing loses in length, without doubt, because the change is made so insensibly during the whole course of life The opening of the bodies of some sailors who died of a kind of colic called dry colic, opened my eyes on this subject found the appendix of the cæcum in two of the subjects almost entirely effaced, the cæcum and colon enormously dilated and filled with a quantity of hard matter and much rarefied air The coats of the colon were very thin, its sacs had disappeared, and its ligamentous bands were scarcely visible, while those of the cæcum, continuous with it, and the coats of the cul-de-sac, appeared to have lost very little of their ordinary thickness

I see then in this, not only the explanation of the phenomena that the cæcum and its appendix have presented to me in the state of disease, but the reason of all the variations naturally seen in the disposition of this organ, which determines more ex-

actly its use

In order to conceive the thing, it is enough to have present in the mind, the disposition of the cæcum and colon One soon feels that the matters time, to determining the use of the parts which they de- retained in the cæcum cannot pass out into the arch Al- of the colon, because they would be raised considerably against their own weight, and the power to act on them can have the effect only of pressing them laterally, whence it ought to result that the tendency of the matter would be, that part of the effort would necessarily be lost in the fundus of the cæcum, here we find a point of support that reacts hanges and variations to which this part is subject, upon them with more advantage as the cæcum is nd is hardly in accord with the arrangement or the fixed and retained by its ligaments, and as it cannot unction of organs to which this body appears to be escape the force which is applied perpendicularly by This function, 'ssed heretofore, viz, to determine the true desti- continuous and necessary to nature, and which ion of it Supported by observation, I shall try tends without ceasing to dilate and elongate the lo it, although the result may appear to have but fundus of the excum, would soon thin and burst e interest, but it is important always to know it if nature had not taken precaution against such accidents by a mechanism as simple as admirable, in If all the opinions that have been proposed as to sustaining the fundus of this intestine, so that the three

ligamentous muscular bands, which contract the colon, form with it the appendix, and present a part which is insensibly developed, and foreshadows (in furnishing the augmentation of the cæcum) the thinning of the coats, and perhaps in certain cases, the rupture of this intestine, preserving always by this arrangement, of the three bands placed along the length of the colon, an equal and durable force, which would not have been the case if they had been placed transversely and sustained the fundus It is also to preserve this function, and to render it solid and durable, that nature has thrown a little on one side, the narrowing of the cæcum, the weight of matters thus acts less directly on this part, and development is a little more difficult, and with a slowness which is an advantage It is quite true that in the appendix there is filtered a mucus, and therefore we should regard it as one of the uses of this part, to furnish a matter capable of lubricating the cæcum, but which, at the same time, is capable of opposing efficiently the extension of the walls of this little intestine which we may regard as a corner stone

The contraction and the folds of this part, which are larger as the appendix is elevated, and more favorable to turn out the liquor which is filtered into the cæcum, and are intended to prevent the too rapid flow of the mucus, the presence of which in the appendix is necessary to the preservation of its state

From all these economic views of the use of the appendix vermiformis, it is easy to deduce all the natural or accidental varieties that this part may present in different subjects and all ages Why, for example, when the appendix corresponds to the fundus of the cæcum, we find it larger and less shrunken? Why, as age increases, this part is found shorter than in subjects where the appendix is placed on the side, and as in this last case, when the appendix is much narrowed and very long, we find in the progress of age the cæcum capacious and its walls very thin We explain also easily, why women who have had children, have the appendix short, and the cul-de-sac of the cæcum very long, in a word, there are no phenomena which I have mentioned above, which may not be ascribed to this explanation, and confirm forms of microbes found by Friedlander and Frankel at the same time, the use which I believe should be assigned to the vermiform appendix

TREATMENT OF ACUTE AND CHRONIC PURULENT INFLAMMATION OF THE MIDDLE EAR (OTORRHŒA)

Read before the Philadelphia County Medical Society, April 25, 1888

> BY LAURENCE TURNBULL, M D, OF PHILADELPHIA

The cavity of the tympanum, or middle ear, in health is filled with ever-renewed air by the Eusta- time, upon some of these changes, the most imporchian tube, and thus the waves of sound reach the labyrinthine nerve of the ear It is deeply and securely situated in the temporal bone. It measures leaves of the Extract from the author's Clinical Manual of Diseases of the Extract from the Extract from the author's Clinical Manual of Diseases of the Extract from

breadth and height being about one-half inch, and its shape is the form of a cube. The cavity of the tympanum is apparently lined with a continuation of the mucous membrane of the Eustachian tube, and yet the epithelium is distinct—that of the Eustachian tube is ciliated, whilst in the middle ear it is tessellated, or in squares This epithelial and subepithelial lining takes the place of a penosteum by transmitting the blood-vessels which supply the bones This latter fact is important to notice, as any serious affection of this membrane will ultimately react upon the nutrition of the bones forming the cavity, thus resolving a severe catarrh into an ostitis The existence of this mucous cushion is the reason why affections of the middle ear are so numerous in young children The close contact of the jugular vein to the cavity of the tympanum exposes it to the influence of pus collecting on its floor '

In acute otitis media, or inflammation of the middle ear, there are frequently but slight pathological changes in the ear except swelling, deep redness, and small perforations of the membrana tympani The discharge is either mucus or mucus and pus-This can be shown by the pus dissolving in water, and the mucus found floating on the top

By the use of anodynes, cocaine, chloroform, morphia, etc, pain is relieved, with the internal use of tincture of aconite, antipyrin, frequent hot foot baths, with local depletion, inflammation is checked The parts should be cleansed with a mild, warm, antiseptic wash, and, as a rule, all goes well The case generally recovers in a short time, without any permanent injury to the hearing apparatus, if not neg-You, medical gentlemen, are all familiar lected with this disease in young persons and children, the latter having as many as two, three, and even four, acute attacks during teething, or the result of the This disease is now so well exanthemata or cold known and, as a rule, so promptly treated, that a much smaller number of cases are now permitted to pass to the second stage of inflammation of the middle ear—the purulent variety—which causes such extensive changes in the hearing apparatus In such cases of acute otitis media Zaufal finds exclusively the two in pneumonia, viz a large, short bacillus, encapsulated, and a diplococcus, also encapsulated He has also shown that the exudation in acute otitis media, before rupture of the membrana tympani, contains pneumococci to the exclusion of all other microorganisms, and that these, introduced into the nasal fossæ, can give rise to a meningitis without irruption of the cranial envelope 1

In collecting a large number of cases of suppuration of the middle ear, which includes three or four years, I find that, out of 1,700, 454 were acute, while 1,246 were chronic, 18 had facial paralysis, while the balance included polypi, caries, necroses, cholesteatomata and tubercles Let me dwell, for a short

meatus or that portion of the ear covered by skin, of the membrana tympani, extending into the mastold cells, and through the Eustachian tube to the throat and nose After this disease has existed for some time, there is an increase of the bulk of the mucous membrane, caused by excessive infiltration with round cells, and enlargement, with new formation of vessels

The subepithelial layer, stripped of its epithelium, is replaced by round cells, a suppurating, granulating surface, traversed by many vessels, takes its place The purulent process leads to destruction of the tissues, to ulceration and wasting of the mucous mem brane, which is eaten away so that the bone is often laid bare

This is especially the case in tubercular ofitis me dia purulenta, and it has been demonstrated by numerous post-mortems that they tend in a very short time (six to eight months) to extensive necrosis of those parts bordering on the diseased middle ear, and extending into the labyrinth, the rapid course of the disease being due to the tubercular diathesis

It is also often the case, in this form of disease of the ear, that tinnitus and impairment of hearing precede the perforation, which is most generally painless, but with rapid destruction of the drum head transformation of the round cells into spindle-shaped, there occurs a formation of a firm connective tissue, which leads to abnormal adhesions between the membrana tympani, the ossicula, and the walls of the tympanic cavity, producing permanent deafness The membrana tympanı almost always suffers a loss of its structure, and in severe and protracted cases we have large perforations

Treatment - These perforations are most ordinarily treated by a combination of alteratives, so as to modify the nutrition and prevent the destructive tendency from gaining headway The local application is also of importance, especially such remedies or local means as change the surface of the granulahons, gently stimulate and cleanse them No agent in our hands has acted so promptly and well as very finely levigated boric acid, alone or in combination with iodol, the latter to act as a true antiseptic, using 1 part of the iodol to 10 of boric acid used alone should be sterilized, by heating before using on a platina foil, as it contains fungi and bacteria when kept for some time. The powder must be carried down to the perforation, and through it as much as possible, so as to reach the diseased mucous membrane and the Eustachian tube with the little instrument I show you If it is blown in, it adheres to the edges of the auditory meatus, causing irritation, and sometimes small abscesses This powder has a stimulating and an astringent effect, just as alum used in the same manner It should be packed carefully, so that the diseased membrane be fully covered is not necessary to seal it, indeed, it is almost impossibe to cause the retention of the pus in the cavity, as the powder absorbs it, and the former when applied produces a watery discharge by its stimulating effect, so that the patient will be obliged to wipe off the liquid

As to boric acid causing retention of the secretion but in the mucous membrane of the middle ear, back in the treatment of necrosis of the temporal bone, or in a large perforation, it has not acted so with me I have used boric acid since 1881, after my return from Europe, and like its introducer, Freidrich Bezold, of Munich, I have been convinced of its efficacy in these severe cases, and that the objections to its use -1 e, its causing retention of the secretions—as advocated by some, are entirely without foundation According to his and my own experience, extending over a period of seven or eight years, its use has always been followed by favorable results, so he had no reason to modify his statements made in 1870, as to its therapeutic value. He has also confirmed his opinion of the unreasonableness of these objections by a series of physiological experiments, in which he tested the capacity of absorption of powdered boric acid for fluids outside of the body, before, as well as after, saturation and drying out of the powder with purulent secretion which enclosed in a glass tube covered with a perforated membrane was exposed to the influence of fluids from the ear

> This special mode of treatment is peculiarly applicable to large perforations of the membrana tympani, when the perforations are small they are more effectually treated by a solution of boro glyceride, carbolic acid, or peroxide of hydrogen

> When the perforation is situated in the membrana flaccida or Shrapnell's membrane, with disease of the attic of the tympanic cavity, we resort to a syringe (intertympanic), or a catheter to which a soft rubber ball with a double valve is attached, to withdraw the fluid, and not let it return when diseased, either of which is inserted into the perforation and the parts washed with a solution of peroxide of hydrogen or an antiseptic If carrous bone be found, covered with polypi, the latter should be snared and the dead bone removed, but if the bone be found only inflamed it should be treated by diluted nitric or carbolic acid, to stimulate the granulations and restore it to its normal condition. All tearing and cutting operations—as these tend to malignant disease must be avoided, everything should be done with extreme care and gentleness When pus blocks the tympanum in disease of the middle ear the tuningfork is heard better through the air than through bone But when the pus is removed, and the inflammation is reduced the bone conduction will again improve as the pressure has been removed from the labyrinth.

It has been found that functional disturbances in hearing are produced by chronic purulent inflammation, by the cicatrices and changes in the membrana tympani, and adhesions before referred to in the middle ear, after all discharge has ceased alterations in tension of the sound conducting apparatus, caused by the cicatrices producing irregular vibrations in the membrana tympani Second, cicatrices which cause adhesions of the membrana tympani with the promontory, and the articulation of the incus with the stapes, impeding the power of vibration of the ossicula Third, if the adhesions are confined to the portion of the membrana tympani situ-

² Arch für Ohrenheilkunde Band xv, and in the Ærtsliches Intelli-genzblatt, 1881 No 26

ated below the handle of the malleus the acuteness lute necessity that the pressure of the au-which is of hearing has been found to be considerable, while fourteen pounds to the square inch-should be equal adhesions in the upper half of the membrane pro- on both sides of the membrana tympani, and all obduce more disturbance of the hearing, or deafness, structions to this must be removed to attain perfect especially when the handle of the malleus is drawn hearing. It is of importance that our patients, con inward and ankylosed with the promontory Fourth, valescent from chronic purulent ear disease, should it has been proved that imperfect hearing power may breath through the nose, and be able to shut the exist even in cases of extensive destruction of the mouth, especially when sleeping, to prevent the drymembrana tympani, and with the loss of all the ing effects on the throat and Eustachian tube. This bones, except the foot-plate of the stapes—that is, if it is accomplished by a mouth-band tied behind the were movable, and the membrane of the fenestra rotunda was not thickened The regularity of our perception of tones is due to the deadening of the sounds produced by the ossicles, the membrana tympani can only be properly considered as a sound conductor in connection with the ossicles Even if fair hearing of ing effects of all operations by the use of nasal tents speech and music remain, the removal of the membrana tympani, or protecting membrane of the tympanic cavity, is dangerous to life, for it is deprived of a covering which is essential to its continuation in health To retain and restore to a healthy condition the diseased and ulcerated bones of the ear and the membrana tympani is of the utmost importance

Extension of this chronic purulent disease of the ear by the Eustachian tube as a pus-carrier, produces disease of the upper part of the nasal cavity, by developing polypi, enlarging the pharyngeal tonsils, adenoid growths, and hypertrophic enlargements of the turbinated bones and ozæna

We fully agree with Politzer, that combinations of ozæna with disease of the ear are much rarer than we would suppose, from the extension of the process toward the entrance of the Eustachian tube the ear is implicated, the mucous membrane of the middle ear becomes most frequently sclerosed many cases of deviations of the septum we have found perfect hearing, unless complicated with prior ear disease, or exostitis extending through the whole line of the meatus, these are removed by the dental Such cases suffer from coryza or cold in the head, commonly so called, but are promptly relieved by a 4 per cent solution of cocaine There are also many cases of anterior nasal polypus which do not produce deafness

One of the chief causes of deafness is the extension of the pharyngeal tonsil into the tuberosity of the Eustachian tube, and even into its osteum In the so-called ethmoiditis of "Woakes" there is not necessarily any causal connection between the ear and these affections, in many cases the nasal trouble has long existed without involving the ear If the ethnoid cells become diseased, or necrosed near the Eustachian tube, then we may have paresis of the palate attended with a distressing form of tinnitus, as in one case under our care, there was perforation of the membrana tympani from extension of the irritation through the Eustachian tube In this case the patient recovered under local and constituspicula of bone, or hypertrophied tumors from post the radial and the ulnar sides of the index, as well as terior portions of the turbinated bones, improves the the radial side of the middle finger, were resected to deafness of cases of long standing, when attended a great extent The forefinger now became analysis with retraction of the membrana tympani, the re-sults of naso-pharyngeal disease There is an abso- which, as is known, is supplied by the radial nerve,

ear, as recommended by Delstanche in the case of children, after the removal of the cause treatment of the naso-pharyngeal disease should always precede this, in order to see that nothing obstructs the respiration, and to watch the controvert of laminaria, or those of platinum, or glass covered by soft rubber, and thus keep up nasal intubation

1502 Walnut St, April 25 1888

"MEDICAL PROGRESS.

TRANSPLANTATION OF NERVE FROM THE RABBIT TO MAN -DR GERSUNG, of Vienna, assistant to Professor Billroth, has recently performed a novel and interesting operation—the transplantation of The case has not nerve from the rabbit to man hitherto been published in any medical journal but, owing to its general interest, the bare fact had found its way into the lay newspapers Our Vienna correspondent has received from Dr Gersung a verbal account of the salient points of this most remarkable operation, which has so far been conspicuously suc-The patient is Professor von Fleischl, the cessful distinguished occupant of the chair of physiology in Sixteen years ago he ac the University of Vienna cidentally wounded himself while conducting a postmortem examination, and severe inflammation of the whole right upper limb ensued During the course of the disease the terminal phalany of the thumb The stump thus left was pain became gangrenous ful, and later on reamputation was performed was followed by the formation of neuromata For this condition the branches of the median nerve which supply the thumb were first resected, together with the terminal neuromata and at a later period, when new neuromata began to develop, the central parts of the same nerve, together with the branches of the radial nerve which supply the thumb, were resected Fresh neuromata now developed on the branches of the median nerve, which were treated, without any success whatever, by the injection of hyperosmic acid and electrolysis Two years ago the neuromata were resected again, and the resection of the nerves was continued as far as the "ligamentum carpi vo-The removal of the diseased lare," on this occasion, the branches which supply

in the same way the whole radial side of the middle recurred, as after the previous operations, and during importance with medicinal treatment the course of the second week after the last operation, the patient became aware that a fresh neuroma tomatic drugs, and are devoid of danger was developing The suffering finally became so severe that the patient wished to undergo another operation, in order to procure, at least, temporary relief Accordingly the following operation was per-On March 4 the patient was put under the influence of chloroform, and the neuroma, which was situated behind the volar carpal ligament, was excised, the nerve being cut through behind the neuro-The penpheral nerve stumps of the two digital branches above mentioned were then sought for rabbit was now killed, and as long a piece as possible of the sciatic nerve of the animal, with the two branches into which it becomes divided, was dissected from it (the animal still presenting voluntary contractions) The sciatic nerve was afterwards inserted into the space between the central stump of the median nerve and its digital branches, the central end of the sciatic nerve was sutured to the connective tissue which covered the median nerve, and the two branches were sutured to the digital branches of the median nerve, the portion of nerve, measuring about 6 centimetres, which was deficient was thus made up After the operation severe pain persisted for some hours, but then entirely subsided Healing took place by first intention As two months have now elapsed since the date of operation and the pain has not returned, it may be hoped that the favorable result will become a permanent one Sensibility, moreover, is becoming reestablished in the part Gersung has postponed the publication of the case, because he wished to observe whether complete sensibility would return, he hopes with confidence that this will be the case The ultimate result will be as now appears probable, Dr Gersung's recommend- June 2, 1888 ation that the operation should be given an extended trial will doubtless be widely acted on -Brit Med,

PATHOLOGY AND TREATMENT OF PERTUSSIS —DR EDMUND WENDT draws the following conclusions at the close of a paper on this subject

Jour , May 19, 1888

I There is constantly associated with whoopingcough a special microorganism, discovered by Afana-

2 This microbe is a small bacillus, having properties that distinguish it from all other known bacteria.

3 The "bacillus pertussis" (bacillus tussis convulsica Afanasieff) can be readily demonstrated in the sputum of patients having the disease

4 While its etiological significance appears estab lished, it does not possess much diagnostic importance, since it is found only after the clinical features of the disease are already well marked

5 The treatment of pertussis has not yet been materially advanced by this discovery

6 Antiseptics locally applied do not appear to

shorten the duration of the disease

7 Hygiene and judicious alimentation are, in the finger became an esthetic The pain, however, again present state of our knowledge, of, at least, equal

8 Antipyrin and the bromides are reliable symp-

g A specific has not yet been found

10 Abortive forms of pertussis may occur, but no plan of treatment now known can claim to have abortive efficacy

Although I have deprecated the habit of recommending particular drugs on the strength of gratifying personal experience, I cannot refrain from alluding to the use of antipyrin in pertussis Dr Sonnenberger, of Worms, was the first to call attention to this new drug in the treatment of whooping-cough He claimed such surprisingly good results from its employment that my sceptical faculty was immediately fanned into activity, Nevertheless, so far as my own limited experience goes, I must own that antipyrin has with me a better record than any other one drug I can claim no cures from antipyrin what the drug has appeared to me to favor, was an easy course of the disease to final recovery, a mitigation of the paroxysms, especially at night, possibly a reduction in their numbers, and certainly a free-This is higher praise than dom from complications I can conscientiously bestow upon any other method But I am far from claiming as much of treatment as Sonnenberger, for antipyrin, that author asserting it to be distinctly curative. As to the method of its employment, I have followed the directions of Sonnenberger, who gives one seventh of a grain to very young children, and gradually increases the dose according to the age of the child To adults he gives fifteen grains The medicine is administered three times daily, and sometimes once during the night Children take it readily when dissolved in a little water and raspberry syrup The remedy should be awaited with great interest, for if it is as favorable continued throughout the attack - Medical News,

> THE BLOOD IN DIABETES —LEPINE has recorded a case of diabetes which terminated fatally in coma, and in which, for the first time, it was positively shown that in this state the blood loses its alkaline reaction (Revue de Medecine) As far back as 1883, at the debate on diabetes at the Pathological Society, Dr Ralfe first drew attention to the fact that the symptoms of diabetic coma were not unlike those produced in animals poisoned by an injection of acids into their veins, or whenever attempts were made to diminish the alkalinity of the blood by other means, whence the speaker inferred that the poison concerned was of an acid nature, which by decomposition in the urine became converted into acetone This idea of "acid intoxication" has since been generally adopted, and Minskowski has discovered the presence of an acid (oxybutyric) in diabetic urines which is capable of breaking up in aceto-acetic acid, This acid does not, and thus furnishing acetone perhaps, exist in the blood and tissues in a free state, but is probably combined with some base with which it forms an acid salt. In Lépine's case, intravenous injection of a saline fluid containing about an ounce

each of sodium chloride and sodium bicarbonate to three pints of water was employed when the coma first set in After this there was some immediate improvement from the coma, the pulse rallied, the temperature rose from 96° to 97 5° F, and the patient could speak, but not swallow Twelve hours afterward venesection was employed prior to the trial of claims that in this way (1) disinfection is more thor a fresh injection, when it was found that, in spite of ough, (2) the hands are made purer than it is possi the previous injection of a large quantity of alkali, the reaction of the blood was neutral—a clear proof, main soft and free from rough epidermic scales, and Professor Lépine thinks, of the acid nature of the the odor of carbolic acid is destroyed, (4) the undisease, and its power to destroy the normal alkalinity of the blood It may be a question, however, says The Lancet, whether the injection of an alkaline | June, 1888 bicarbonate into the blood in diabetic coma is a right procedure For, though the reaction of the salt is alkaline, yet its constitution is acid, and, as Dr Ralfe pointed out some years ago, probably acts as an acid salt in its decomposition with other salts in the body, and so actually tends, after the immediate effect of its alkalinity has passed off, to diminish the alkalinity of the blood Should this, on further inquiry, prove correct, it might be advisable to employ neutral sodium phosphate instead of the acid sodium carbonate for intravenous injections — Medscal Record, June 2, 1888

THE CORRECTION OF NASAL DEFORMITY BY MEANS OF PLASTIC OPERATION -DR OBLINSKI, of Krakau, in his paper refers more particularly to deformities resulting from loss of the cartilaginous framework of the nose Dieffenbach treats this class of patients superficially, recommending the division of the cicatrices, which deviated the point of the nose, by means of a tenotone, and the filling of the nares with lint This method gives only temporary relief

In a girl, æt 16, Prof Oblinski found the following deformity The tip of the nose, as a result of the destruction of the cartilaginous septum, was sunken in, on each ala nasi there was a deep longitudinal groove, formed by cicatricial tissue, dividing the lower half of the nose into three spheroidal growths, which eventually would completely obstruct a free removal of bone 3 The desirability of thor the nares At the upper end of the right sulcus there was seen an opening through which the air en-The author, after completely tered into the nostril cutting out the right groove with its cicatricial tissue, and also incising the opening in its upper extremity, replaced the gap thus left by an oblong flap from the cheek, cut from the upper end of the right sulcus | March 17, 1888 The flap was 2 cm long and 1 cm broad and easily The left Primary union occurred filled the gap sulcus was also excised in the same manner, and replaced by the oblong cheek flap The cosmetic re The tip of the nose was well sult was satisfactory The author recommends, however, a larger flap in the future, thus allowing for subsequent contraction — Deutch Zeitschr f Chir, Band 24, heft 1-2 — Annals of Surgery, June, 1888

CLEANSING THE HANDS -DR VOGEL, of Eisleben, etc, whose hands become covered with dirt from when required for use — Druggists Circular and working in oxides and acids which cannot be re- Chemical Gazette, June, 1888

moved by ordinary means, first rub their hands with warm oil and then, when this has thoroughly pene trated, with powdered borax Subsequent washing with soap and water makes the hands perfectly clean He advises those who have to use carbolic acid to go through the process above described first, and ble to make them by soap alone, (3) the hands re comfortable anæsthesia of the hands, after washing with carbolic acid, is avoided -Druggists Circular,

MECO-NARCEIN —DR LABORDE has called the attention of the French Academy of Medicine to the valuable soporific qualities of a product derived from opium, to which he proposes to give the name of meco-narcein Narcein as ordinarily prepared is comparatively insoluble, and therefore has very little physiological effect. He has succeeded, however, in obtaining a product quite free from morphine, and consisting of narcein mixed with various unknown A fifth of a grain induced a calm sleep alkaloids in a dog weighing thirty pounds, without any appar ent after-effects It would appear to be devoid of the preliminary exciting effects of morphine, and does not derange the digestive apparatus Dr La borde recommends it in the treatment of insomnia of nervous origin, in broncho-pulmonary affections characterized by cough and excessive secretions of mucus, and finally in morphinomania -British Med ical Journal, May 26, 1888

SURGICAL TREATMENT OF DEPRESSED COMPOUND FRACTURES OF THE SKULL -MR LAWFORD KNAGGS reports a case (fatal) of compound depressed frac ture of the parietal bone, and calls special attention to the following points in the treatment of these r The value of the large flap over the cru cial incision 2 The advantages to be derived from ough exploration, even by means of a flap of dura mater, in cases where that membrane is injured 4 The great importance of thorough cleansing with powerful antiseptics, even of the cerebral substance itself in suitable cases, and of endeavoring to secure from the commencement complete asepsis -Lancet,

TANNIN WOOL -DR RICHARDSON describes in the Asclepiad, a preparation designated tannin wool, which he recommends as being of great service in treating ozæna and other diseases attended with fetid It is said to be a ready styptic and to possess good antiseptic properties It is prepared by odors adding pure cotton wool, bit by bit, to a saturated solution of tannin in distilled water, at 140° F, until all the solution is taken up, then drying the wool It should be kept in slowly in an evaporating dish a closed bottle in the rough state, and teased ou

THE

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THE EDITOR OF THIS JOURNAL would be giad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or scottaining items of information should be accompanied by the writer's full same and address, although not necessarily to be published. All com munications in regard to editorial work should be addressed to the Editor

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PENNY WISE-POUND FOOLISH

A person who has misappropriated the nom de plume "Justice" has published under the auspices of the "Tax Reform Association of Chicago" a pamphlet entitled "Extravagance is the Cause of the 53 cent State Tax in Illinois" Comparative statistics are pointed, showing the expenditures of various departments of the State Government, including among others the State Board of Health It appears from the figures quoted by "Justice" from the reports of the Auditor of Illinois that the expenses of the State Board of Health for 1878 were \$1,669,15, while for the two years ending September 30, 1886, they were \$29,841,87 "In what way" then asks the writer anent this obvious increase of expenditures "were the people of the State compensated for this outlay of money? The truth is," "Justice" continues, "there is no necessity for the existence of this Board under the pay of the State There might as well be a State Board of Lawyers to see that none but competent men practice the profession of law"

It may be true that in Illinois taxation by the State Government is excessively high, and it may even be a fact—which "Justice's" pamphlet was intended to show—that such excessive taxation has been due to the predominance of a particular political party in the management of the State Government Whether true or not, the matter is not one that concerns us as medical men But in the sanitation of the State, and in the protection of the public health, we have mercenary considerations connected with tax-paying

come before a body like the State Board of Health, as well as with the needs of the public, and the necessity of protecting public health, it is only just to the people and to the State Board of Health that the attack of "Justice" should receive more than passing mention at our hands

The suggestion of a State Board of Lawyers is a little unfortunate for "Justice," it weakens rather than strengthens the argument, for it is by no means certain that such a Board might not render the legal profession and the people generally invaluable service The better members of the Bar admit if it existed that of late years not a few of their profession have constituted something not far from a pestiferous pub-There are members of the Bar that do lic nuisance but little business besides procuring divorces, bribing juries, corrupting legislators, promoting litigation, swindling the ignorant and confiding, and defrauding even the strong and well-informed There is scarcely a corporation but has its "attorney" to engineer projects that cannot for a moment bear the light of investigation, and never is a member of the "wealthy criminal class" unable to secure the services of "distinguished counsel" in the execution of any nefarious scheme that can be cloaked and garmented in the forms and phrases of the law A State Board of Lawyers, clothed with sufficient power, and having enough conscience and backbone to undertake the herculean task of reforming the Bar, might therefore do effective service in excluding quacks from the legal profession, and purifying the morals of some that would be left

But "Justice's" fundamental error seems to have been in overlooking the fact that the State Board of Health does a far greater work than that of being merely an examiner of applicants for admission to practice medicine-though its work in performing this duty alone is of some value in saving the public from incompetent practitioners and quacks the sanitary work of the Board far exceeds the amount and importance of its work as an examining and licensing body, "Justice" could have perceived -had she not been blind by reason of having the mythical scales over her eyes instead of in her hands. -by considering the items making up the expenditures of the Board In the two years ending September 30, 1886, Dr Clark, Kreider, Ludlam, Bateman, McKenzie and Haskell received for "expenses as members" \$625 36 In this time these gentlemen attended not less than eight meetings of the Board, an interest greater and more direct than the mere for which the amount each received averaged \$105, or about \$13 apiece for each meeting, clearly not an And having some familiarity with the problems that extravagant price Other items were vaccine points

\$21728, vaccinating negro paupers to prevent spread of small-pox \$100, chemical examinations in the Momence meat-poisoning cases and of Chicago water-supply \$550, expenses of a member of the Board in connection with the Momence meat-poisoning case \$100, expenses of a member of the Board for visiting a man affected with glanders \$22 70, detectives for services in investigation \$38 o5, Secretary for expenses in investigating and preparing for prevention of epidemics and contagious diseases We also find that in the two years the Assistant Secretary was paid \$2,400 for salary, and \$1,271 50 for clerical services—\$1,835 75 a year, other clerical services for the two years amounted to \$6,708 63-\$3,354 31 a year, incidental office expenses for the two years \$2,959.36 Thus far there is no "unnecessary and extravagant use of public money," and we have a total of \$16,471 41 The remaining items of expenditure were for messengers, janitor, merchandise, attorney's fees, secretary's salary, and stationary, printing and binding, which last three items amounted to \$5,973 46 If there was any waste of money in these items it was due to the awarders of the contracts to the "State printing ring," not to the Board of Health

"Justice" further complains that the Secretary of He did nothing the Board paid himself \$10,837 89 Of the amount thus figured \$2,959 36 of the kind have been included above as office expenses for two years, and \$1 878 53 have been accounted for under the necessary traveling expenses of the Secretary to provide against the importation of disease into the Is he to pay his own expenses when on such The remainder of the amount "paid himbusiness? self" was \$6,000 for salary in two years no one will say that this is a princely salary Secretary of the State Board of Health receives less salary than any of the three State Railroad Commis-"Justice" is singularly silent concerning this Board of Railroad Commissioners Theoretically it constitutes a body of railway experts, practically, as any one may see from the "Reports," it is officered by men that have not even an elementary knowledge of the practical art in which they are supposed to be experts, and for their "time" they receive \$3 500 a year, the three thus taking \$10,500 from the treasury It has not been very long since one of of the State them was heard to say that he was "not losing any law practice by the time that he gave to Board" "Justice" be bent on reform of State taxes this incompetent trinity furnishes ample scope for the practice of economy

"The truth is," says Justice, "there is no necessity for the existence of this board under pay of the State

In what way were the people of the State compensated for this outlay of money?" Is "Justice" a recent importation into this country and State, or has she yet to hear of the smallpox epidemic of 1880-82 in Illinois? Does she know that the Illinois State Board of Health warned the people in March, 1881, of the threatened danger, when smallpox was at less than half a dozen points outside of Chicago, and urged vaccination and revaccination, that little heed was given to this first warning, that after September, 1881, the epidemic spread to 77 of the 102 counties of the State, causing an aggregate of 8,856 cases, 2,978 deaths, and a loss of \$4,403,968, exclusive of the actual value of human life lost and the disabled condition of many of the survivors, that by January 24 1882, the epidemic was at an end, chiefly through the labors and efficiency of the State Board of Health of Illinois, and that this action of the Board caused a saving, outside of Chicago, of 1,517 cases, 320 lives, and more than \$2,790,000 (exclusive of actual life-value), enough to pay the present expenses of the Board for about seventy-five years? Is it not perfectly clear that the present expenditures of the Board are less than 2 per cent of the amount saved to the State and the people in 1882 by its vigi lant and efficient Board? If "Justice" wishes to see the figures upon which these statements are based, they can be found in the "Fifth Annual Report of the Illinois State Board of Health," pages 218-20

No epidemic of any kind has ever been so widely and so intelligently observed as that of which we have just spoken, and the records of the observa tions, which cover 125 pages of the "Fifth Annual Report," are of very great value to the people, the tax payers, not only of this State, but of every State in the Union, and will continue to be of value for years And if the lesson taught by that epidemic, and by its extinction mainly through the efforts of to come the State Board of Health, be heeded by the people of this State, they will be free from further invasions of this kind, and will never regret paying the Board a small percentage on the amount it saved six years ago, to say nothing of the actual dollars and cents saved by it since that time

"Justice" has something to say, in the same connection, of the National Board of Health Every one that has looked into the subject knows that this very necessary organization was rendered inefficient, and finally killed, by act of Congress—by the "penny wise, pound foolish" notions (not ideas) of legislative

"Justices" Notwithstanding the fact that cholera and yellow fever have cost this country more than a thousand million dollars, exclusive of the actual value of thousands of lives, in spite of all the light of ex perience, and of all the easily accessible literature that proves conclusively the absolute necessity of a National organization to cooperate with the State Boards of Health in protecting the people from imported death, there may yet be found a person to write a dime pamphlet in which it is gravely asserted that a State and a National Board of Health are sources of "unnecessary and extravagant expendi ture of the people's money"

Until "Justice" has succeeded in abolishing the Board of Railroad Commissioners, or in officering it with competent and efficient men, so that the results of its labors will bear a comparison with, rather than be a contrast to, those of the State Board of Health, she had best "sing small"—if indeed she would not render more efficient service to her "Association" by maintaining a discreet silence

THE HEREDITABILITY OF HEART DISEASE

There is a popular belief that heart disease, in its generic sense, can be inherited Hence many individuals whose parents, one or both, have died of some cardiac affection, are haunted by the dread of the ultimate development in themselves of the same disease

There is considerable vagueness of ideas, and even a looseness of expression among medical writers concerning the inheritance of disease, as, for example, when congenital syphilis and cancer are both classed as hereditary In a strict sense the former is inherited, since it is transmitted as such from parent to offspring, whereas the child of cancerous or tuberculous progenitors receives a certain predisposition to dis-He inherits a constitutional defect which renders him peculiarly hable to develop the cachevia of his immediate ancestors, but until it is developed, he is the subject of a diathesis The diathesis is hereditary in this case, and hence, when the constitutional tendency has borne its legitimate fruit, the disease may be said to be hereditary

However desirable it might be to hold to so rigid an interpretation of inheritance as opposed to constitutional predisposition, it is impracticable to do so, and one must content himself with the decree of cus-Therefore, although hereditary syphilis is congenital, other diseases accounted hereditary are not necessarily congenital, as, conversely, all congenital disorders are not inherited

ops in the offspring as a consequence of a special tendency imparted to the embryo by either the paternal or maternal element, or both, the impression thusmade being so strong that the ultimate appearance of the disease, under favorable conditions, is almost an unavoidable certainty

In accordance with this definition, the hereditability of heart disease depends upon the answer to the query whether or not there can be discovered in families a definite hereditary predisposition to cardiac disorders? Assuredly no one would venture to as sert that, because the parent dies of some cardiac lesson, the child is likely to die of it in turn there is a consideration which should be taken into account in making a prognosis of that child's future health, and is of no small importance to life insurance This is that, although there may not be companies so striking a predisposition to heart disease as to constitute a diathesis, still there may be some tissue weakness or susceptibility that renders the heart the pars minoris resistentiæ This would seem not improbable if heart disease had existed in several successive members of a given line of ancestors, or been developed in a considerable proportion of the children of a given family To be specific if a mother dies of valvular disease induced by inflammatory rheumatism, and all four daughters bear evidence of the implication of the same set of valves, in consequence also of rheumatism, does it not look as if there were a family susceptibility to the same morbific influence? An objector may urge that in this instance the susceptibility can be said to apply only to the rheumatic poison, and that the development of valvular disease is but incidental True, but the percentage of cases in which endocarditis is developed in the course of rheumatism is comparatively Whereas in this family all five individuals attacked by rheumatic fever are left with valvular le-Would any physician ignore such a history in treating one of the family for an attack of inflammatory rheumatism?

There are other forms of heart disease, however, in which an inherent tendency seems to play a more ac-These are fatty degeneration and the vative part rieties of cardiac decay dependent upon and associated with arterio-sclerosis Obesity is often a family trait, yet all such families do not present equal hability to fatty heart Again, in certain families there is an unmistakable proneness to atheroma, as, according to Fothergill, is so often seen among sturdy Yorkshire squires Yet in some, the heart is the first to give out, and sudden death from An hereditary disease, therefore, is one that devel- cardiac failure overtakes member after member,

while in other families cirrhotic kidneys are the rule The death of Mathew Arnold is a case in point He died suddenly in consequence of some heart disease, for which Sir Andrew Clark is reported to have treated him for years We have seen no statement as to its exact nature, but, there is a fact in his family history, which, according to the theory of hereditary predisposition, ought to aid one in forming an opinion as to its character His father, Thomas Arnold, of Rugby, died at the age of 47, during his second attack of angina pectoris, and at the autopsy, his heart was found to be fatty throughout in consequence of insufficient nourishment, since, it had but one coronary artery, and that a small one Now, if this fact be coupled with that of his son's sudden death, at the age of 66, the inference seems forced upon us that Mathew Arnold's disease was also one of muscular degeneration of the heart, and not Should this conclusion prove to be correct, valvular it would appear to strengthen the theory of the hereditability of such forms of heart disease

We believe in hereditary tendencies more widespread than are capable of satisfactory scientific demonstration, and hence, although in the class of cases in question a predisposition is oftentimes too weak to warrant the term hereditary, still we are of the opinion that such a predisposition does exist It differs from that of tuberculosis, etc., only in degree, not in kind Facts on all hands go to prove that in each individual there are certain constitutional peculiarities, congenital and not acquired, which govern not only the course and termination of disease, but likewise the susceptibility to its invasion When such peculiarities are handed down from one generation to another, they become at length sufficiently marked to deserve the title hereditary this sense, therefore, that a hereditary tendency to heart disease may be established

HOW TO LIMIT THE NUMBER OF MEDICAL COL LEGES, AND LESSEN THE CROWDED CONDI-TION OF THE MEDICAL PROFESSION

The thirty-ninth annual meeting of the American Medical Association, recently held in Cincinnati, has received more uniform commendation from the medical press of this country than any preceding meeting for many years. Of the many good papers and addresses presented during the meeting, perhaps no one is deserving of more attention than the Address of the President, A Y P Garnett, of Washington, both on account of the subject and the distinct and emphatic manner in which the chief points of interest.

were presented In The Journal, May 26, we took occasion to call the attention of our readers to what had been done in previous years, both by the Association and by conventions of representatives of the colleges alone, in regard to the adoption of a uniform and adequate system of medical college instruction, as recommended in the second proposition of the President's address

His first proposition, that the Association appoint "a standing committee, to be called a Committee on Legislation, for each State, Territory, and the District of Columbia, to consist of five members of the medical profession in good standing, three of whom shall have no official connection with any medical school or college," has never yet been tried. The duties of the proposed committee in each State and Territory are "to attend the sessions of the respective Legislatures and use all honorable means looking to the reduction of the number of medical schools in the United States, and a consequent diminution in the annual number of medical graduates," by the passage of laws appropriate for the purpose, and for the creation of a Board of Medical Examiners in each State where such do not already exist, which shall be required to examine all applications for li cense to practice medicine in their respective States, The objects sought to be accomplished by this plan are all commendable, but the plan itself appears to be unnecessarily complicated in its details, and without any provision for securing uniformity in the action and influence of the several State and Terri It would doubtless be difficult to torial committees find five competent and influential members of the profession in each State who, as a committee, would be willing to spend their time attending the sessions of the several legislative bodies, or who would be asking for the enactment of laws of the same import The first and most important in the several States step towards the accomplishment of any desirable legislation, is to have a form of law, simple as possible in its details, but accurately adjusted to the accomplishment of that higher standard of both pre liminary and professional education so much desired This must be done by a committee, and then receive the cordial endorsement of the National Medical Association and of the several State Socie It had been confidently expected that such a form of law would be presented by a committee in the Section of State Medicine at the recent meeting in Cincinnati, and if approved by the Section, then to be presented for the approval of the Association For some reason, the charman ın general session

no formal report was made. The committee was continued with instructions to report at the next annual meeting. In the meantime the medical press should be rendering important aid by a candid and thorough discussion of the subject in all its bearings.

EDITORIAL NOTES

New York Post Graduate Medical School and Hospital —At a meeting of the Board of Trustees of the New York Post-Graduate Medical School and Hospital the following appointments were made in the Faculty

Abraham Jacobi, M. D., Professor of Diseases of Children, Robert F. Weir, M. D., Professor of Clinical Surgery, Peter A. Callan, M. D., Professor of Diseases of the Eye, L. Bolton Bangs, M. D., Professor of Diseases of the Genito-Urinary Organs and of Venereal Diseases, Joseph E. Winters, M. D., Professor of Diseases of Children, O. B. Douglas, M. D., Professor of Diseases of the Nose and Throat Dr. William A. Hammond, being about to remove to Washington, has resigned his position as Professor of Mental and Nervous Diseases. Dr. Hammond was one of the founders of the school

ARSENIC IN WINE—About a month ago a large number of persons in Hyères, France, were poisoned by adulterated wine—Analysis has recently shown that the wine contained a large quantity of arsenic, added for the purpose of hastening fermentation, and considerable quantities of arsenic have been found in bodies of the dead exhumed for the purpose of analysis—A large number of the people of Hyères still present symptoms of arsenic poisoning

ELEMENTARY RESPIRATION OF THE BLOOD AND TISSUES—MM GREHART and QUINQUAND have recently reported some experiments on this subject, a portion of them being made with the blood alone, the others with blood in which a certain amount of fresh muscle was immersed. Their experiments show that the blood is simply a carrier of oxygen, and that the blood globules, in so far as respiration is concerned, acts in the same way as the elements of the tissues

WM R. WARNER & Co have issued the following notice to physicians

"We take this method of denouncing the circulation of certain erroneous reports as being the outcome of either ignorance or malice. We have no connection with the firm of H. H. Warner & Co, of Rochester, who make 'Safe Remedies' and other patent medicines. Our advertising is to the Medical profession."

LEPROSY IN RUSSIA—Leprosy is on the increase in the Baltic provinces In Lithuania there are from 250 to 300 lepers, in the district of Dorpat it is estimated that there are 10 lepers to the 1,000 inhabitants. It is now demanded that the government name a commission to study the best means of combating the spread of the disease. A special hospital for lepers is to be founded at Riga, to accommodate 40 patients

Physiological Antagonism —M Chouppe claims that the action of strychnine is hastened by antipyrin, whether the latter be administered before, at the same time with, or after the strychnine By placing animals under the influence of acetanilide he has antagonized the effects of very large doses of nicotine given afterwards

Some members of the American Medical Association purpose leaving about the middle of July to attend the meeting of the British Medical Association at Glasgow in August For further information, as to rates, etc., address Mr. Chas. Truax, 77 Wabash Ave., Chicago

TRICHINOSIS IN GERMANY—For the third time this year trichinosis has appeared in Saxony, at Niederplanitz and Neudorfeld, near Zwickau, where there were about 80 grave cases on May 23

SOCIETY PROCEEDINGS.

PHILADELPHIA COUNTY MEDICAL SOCIETY

Stated Meeting, April 11, 1888

THE PRESIDENT, J SOLIS-COHEN, M D, IN THE CHAIR

DR JOSEPH PRICE read

A REPORT OF THREE CASES OF OPERATION FOR STRAN-GULATED HERNIA.

Case 1 —Miss B, white, æt 40, single, a patient of Dr Dundore, had had a reducible inguinal hernia of long standing and had never worn a truss. In May, 1887, it became irreducible, and the bowels were completely occluded for three days. Well directed efforts to reduce failing, Dr. Dundore decided upon operative interference, and invited me to see her. The usual symptoms of a strangulated hernia were present, the abdomen being greatly distended and tympanitic

Upon incision the bowel was found to be firmly adherent to the sac, requiring considerable dissection to free it completely. After severing the stricture, the bowel was pulled out for a few inches, and found to be completely occluded by bands of inflammatory tissue due to limited peritonitis at the point of stricture—the neck of the sac. These bands were broken

up by fingers, forceps, and scissors, which restored the calibre of the bowel and it immediately collapsed The bowel was very dark in color until released from discomfort, a burning sensation, and finally the herthese inflammatory bands, when its color changed nia appeared rapidly, and I decided the circulation sufficiently good to restore it to the abdomen The canal was Dry dressing, recovery

Case 2 -Miss K, white, æt 75 years, never pregnant, a patient of Dr F X Dercum, who called me in consultation March 1, 1888 Found the patient in bed and very feeble, with a history of complete attack in about a year, and from this time on she has occlusion of the bowel for twelve days, and stercoraceous vomiting for eight days The abdomen was much distended and tympanitic There was a tumor the size of a hen's egg over the right femoral ring which presented no fluctuation nor other symptoms There was also a tumor over the of local trouble left femoral ring the size of a goose egg, likewise presenting no symptoms of local trouble The patient said the tumor on the left side had existed for eighteen years, while that on the right side was more recent, but also of several years' standing failing to accomplish any results, operation was suggested as the last resort, and was performed the next day at the patient's request As there were no symptoms specializing either ring as the site of the obstruction not vomited tion, and as the distension was so great that occlusion at some other point was feared, the incision was made in the median line Examination now revealed that the tumor on the left side was not a hernia, but either a hydrocele of the canal of Nuck, or an old hernial sac that had become cystic The gut was incarcerated at the right femoral ring, and very firmly adhe-Fearful of tearing the intestine, I made another incision over the tumor, and was compelled to dissect the intestine from its sac The intestine was then drawn through the median incision and carefully examined It was found to be greatly congested, but speedily cleared, and was returned to the abdomen The neck of the sac was twisted upon itself, and transfixed by deep buried sutures of silk, and stitched to the edges of the ring, the canal being closed by The median incision was closed deep silk sutures with silk sutures Dry dressings The bowels moved spontaneously the same evening, and the patient recovered without a bad symptom Stitches were removed the tenth day

Case 3 —Operation for ventral herma (By Dr Joseph Hoffman) Mrs M, æt 58, married at 19, She first noticed the ten children, four miscarriages rupture about fourteen years ago, when it was the She in no way attributes the ori size of a thimble gin of the rupture to childbeaaring, which, since she is a large, heavy woman, weighing about 190 lbs, and having a great pendulous belly, would at first grasped as if it was in a vise About 10 inches of suggest the probable cause The cause to which she the large intestine were found in the sac attributes the hernia is a rather singular accident Being, as has just before been stated, a large woman release, the gut was carefully washed and returned and her belly pendulous, when lying on her side, the The incision was closed by deep and superficial su abdominal walls, lax and flaccid, lie loosely on the tures, all of silk The catgut we happened to have her husband, he turned in his sleep, and in so doing it by the enormous belly walls Indeed, the silk was put his elbow directly upon her belly, forcing, as little better, for having been so long in antiseptic 20-

seems probable from her story, the two recti muscles At any rate, from this time on she suffered Her husband being a cripple and a fruit dealer, she was accustomed to help him by carrying his baskets from the market, by this means her closed by buried silkworm-gut sutures, the incision trouble grew worse Two or three years after its first appearance she was suddenly taken ill, her bowels refusing to move Finally, after taking forty cents worth of castor-oil, a movement was secured with great suffering After this she had a second violent had attacks at intervals of about four months, till the time at which Dr Price and myself operated on her, the last of August During this period she was seen by six or eight physicians, most all of whom described her trouble as "twisting of the guts," but operation was never suggested Cathartics were administered to her each time she was attacked, no physician seeming to recognize the fact of their danger, one excepted, who also finally ordered them At her first attack, it has been omitted to state that she was given In all she had ten or twelve serious at up to die tacks At her last seizure, in August, 1887, after efforts to secure two other physicians, she came for I found the woman in extreme pain, she had Examination was made and the herma discovered above the umbilious, about the size of a pint tin-cup or larger, very tympanitic and hard Application of hot poultices was ordered, and a hy podermic of ½ gr of morphia given The next morning she was much relieved, the tumor smaller, and altogether she was very comfortable, so much so, indeed, that I omitted my visit the day after The next, the fourth day, I again visited her, and to my dismay found her vomiting stercora This was all the more astonishing because I had not been in formed of any change for the worse I at once ad ministered a second hypodermic of morphia, and went for the assistance of Dr Joseph Price After some delay I found him, and we operated at once An incision about 6 inches long was made over the The integument was very thin, and extreme care was necessary to avoid cutting through the in-On getting through into the peritoneum we found it so much thickened that it was at first impos sible to distinguish between it and the gut It was finally differentiated and carefully dissected free from the gut, to which it was closely adherent The guts, too, in the sac were closely adherent, and separated The sac was tied off and removed with difficulty The distension of the bowel disappeared at once on its being freed The strangulating portion of the sac was so firm as to resist all efforts to stretch it, and only by the utmost care was the bowel released, tion was very dark, but not gangrenous After its One night while in this position, at the side of was too slight to withstand the great strain put upon

lution it had become rotten, and was thoroughly untrustworthy I was unfortunate, too, in the breaking of the curved needles which, having been made for the Hagedorn holder, were not fitted for an ordinary instrument The operation was, however, completed The woman made a rapid recovery, and in three weeks was up, and stated herself more comfortable than she had been for fourteen years

The incision did not suppurate worth the name, and closed promptly, though not smoothly

Examination to day finds the patient entirely comfortable, though the recti have again separated wears both a band of rubber adhesive plaster and a muslin bandage Is entirely well Her belly bandage is 501/2 inches in circumference

Dr John H Packard thought The amount of material presented for discussion in the papers read is so large that it would be difficult to do it justice

In connection with the cases of hernia reported, he briefly mentioned another, in which an old femoral herma was subjected to unjust suspicion The patient, a woman, about 50 years of age, was brought to St Joseph's Hospital with intestinal obstruction of four day's standing, her general condition was bad, and she had fæcal vomiting femoral hernia, which had given trouble on several occasions, but had always been successfully reduced This was cut down upon, and the sac found to be Laparotomy was at once performed, a twist of the small intestine being found and relieved, flatus was discharged per anum, and the intense congestion and distention of the bowel relieved so that the mass was easily returned In spite of vigorous stimulation hypodermatically and by the mouth, the patient | ing sank, and died in about six hours In this case, which will be elsewhere reported more in detail, an earlier operation would probably have had a different result

As illustrating the difficulties attending the diagnosis of abdominal tumors, a case may be mentioned which occurred at the Episcopal Hospital some years later I saw her surgical ward to be operated on for an apparently movable tumor situated on the left side of the belly two inches below the level of the umbilicus found, however, that the mass was firmly adherent to the panetes, and the operation was abandoned The man died a few months later, and an autopsy showed that the disease was epithelioma of the pylorus, which had in some way become displaced and fastened by peritoneal adhesions in its abnormal relation

the actual lesions in these cases A woman who was brought to the Pennsylvania Hospital in 1886 on account of a gunshot wound, complained of pain in the right thac region only, yet the ball had ranged upward from the left loin to near the right axilla, wounding the pleura, colon, stomach, liver, right internal mammary artery, and right breast

DR. WM GOODELL Some two years ago I operated, performing a double ovariotomy The cysts were colloid, and there was no indication of malignancy About a year afterward, the patient then

being apparently well, she fell in getting out of a carriage There was pain in her right side, considered by her attending physician in the country to be an attack of peritonitis The pain afterward shifted to the left hip, growing worse and worse She was brought to me again and I examined her with the utmost care, feeling sure, from the symptoms and from the emaciation that had occurred, that there was malignant disease I thought that perhaps the stump of the ovary had taken on malignant degener-Finding nothing, I called in a distinguished specialist, who twice examined her under ether, but failed also to detect a cause for the pain actual cautery was applied along the course of the sciatic nerve, to which region the pain was referred Death took place in a few weeks, and at the autopsy, which was requested by the lady before her death, disseminated metastatic cancer of the liver was Clearly the ovarian disease had been malignant in the beginning, and was the focus from which sprang the hepatic disease But the salient point here is pain apparently in the sciatic nerve, while the site of disease was the liver

A few words as to Dr Barton's case 1 The pa-She had an old left tient died probably from acute septicæmia seen so many cases of burst cyst recover, that I have ceased to regard the acident as dangerous unless the general health has deteriorated from chronic absorption of septic material Of course, this may occur My last case failed to rally, and died on the seventh day from sheer exhaustion The rupture had occurred some weeks before from a fall, and the vital powers were slowly impaired, as if by chronic poison-Here every abdominal organ was infected and she was greatly emaciated, and also bedridden

On the other hand, I was surprised to-day by a visit from a patient upon whom I operated not quite two years ago She had been tapped by a prominent physician in New York, who was unable to remove the fluid because it was colloid A few weeks She was then very weak and emaci-A man was sent down from the medical to the ated and confined to her room At the operation it was discovered that the cyst had ruptured and that every organ was either affected or infected with Even the skin and the abdominal wall were colloid infiltrated with it where the trocar had entered thought she would recover from the operation, but expected death in a few weeks from progressive colloid infection She was in blooming health when she called on me to-day, and had gained forty pounds

With regard to the prognosis in these cases of burst colloid cysts, I hardly know what to say The seat of pain is very deceptive as an index of have seen cases remain well as long as three and four years, and then the disease returned in some On the other hand, I have had a fatal other organ return in a few months' time When we open an abdomen and find the whole peritoneum roughened with miliary prominences or with papillary excrescences, are we dealing with a benign or with a malign disease? This is the important question, for on it hinges the prognosis, yet I am unable to answer it.

The apparent improvement after exploratory laparotomy referred to this evening, especially in bleeding

fibroids, I have met with several cases, and it is mentioned by others I cannot explain it Possibly the irritation from the operation causes uterine contraction, or sets up some change in the circulation

I think that Dr Barton removes his stitches too I used to remove them in five or six days But some years ago a wound, after ovariotomy, reopened and there was considerable oozing of serum The patient recovered, however stitches to remain seven full days In a case of laparotomy in which I had removed the stitches on the eighth day, the patient, who was doing well, got some hot tea into her windpipe on the tenth day, and in the paroxysm of coughing the wound re-I had much difficulty in returning the distended bowels, and she died in two or three days apparently from shock, and not from inflammation Two or three months ago I opened an abdomen to in this case The patient is excitable, nervous, and remove the ovaries for a fibroid, under a distinct of rare intelligence. When I recall the relief after promise not to touch the tumor I could not get at the first operation, her extravagant delight at walkthe ovaries they were so imbedded in the tumor, and ing two miles to church, and the fears for her reason, I accordingly closed the wound On the ninth day I must confess that I look for a return of the pain the stitches were removed A few days later, through once more, for I cannot see the relation between a some imprudence of the patient, the wound burst uterine tumor and a pain complained of high up in open to the whole of its length My son closed it, and the woman barely escaped with her life such cases I shall in future leave the stitches in for could employ was cannabis indica in small doses at least two weeks

A word as to the use of ether I had nineteen cases of oophorectomy last year, with one death In that case the operation was very easy, yet suppuration of urine followed and the patient died from uræmia, which I attributed to the ether As symptoms of kidney disease were not manifest before the operation, I omitted to examine the urine Yet serious renal lesions must have existed, and I cannot but think that her life would have been saved, had chloroform been used as the anæsthetic

I was interested in Dr Keen's paper,2 for the case was my first one of oophorectomy and the operation was performed per vaginam The operation was not difficult, although the vagina was small There were marked nervous symptoms after the operation, but The lady had been a patient of no inflammation She had excessive Dr Weir Mitchell for rest cure abdominal pains, profuse menorrhagia and metror-Dr Mitchell recognized a fibroid tumor and The tumor was as requested me to see the patient large as an infant's head, and we decided to remove This was done on October 4 November 20, the patient had been so much benefited that she walked two miles to church in such a state of ecstasy over this, that her mother After that ill-defeared she would lose her mind fined pains returned and there was some bleeding from the vagina On December 17, I removed a painful neuroma of the cicatrix The tumor was painful neuroma of the cicatrix then reduced in size one-half In March, 1878, the tumor had become so small that it gave inconvenience by coming down in the pelvis, bringing the womb of the same year, I found the tumor merely as large in Dr White's case, but there was organic disease of as a horse chestnut and springing from the right side it and of other organs. That death was as indepen-

of the anteflexed womb In December she complained of occlusion of the bowel and bleeding at stool, which I attributed to piles In 1880 there was more or less pain in the left hypochondrium, with more or less nervous phenomena April, 1882, there had been two slight menstrual flows, with the usual molimina Later on violent and repeated hæmorrhages from the bowel occurred, which were at-I then allowed the tributed by the patient to vicarious menstruation For these hæmorrhages I removed, in February, 1884, a large mass of piles by ligation, and also stretched the sphincter ani for a fissure Since then I have not seen the patient

It is interesting to note the rapid diminution of the large tumor From the size of an infant's head it was reduced in nine months to that of a horsechestnut Neurosis was one of the marked features The patient was also highly the left hypochondrium In susceptible to certain drugs, and the only anodyne I

DR M PRICE In many cases it will be found that the cause of strangulation of the bowel is adhesion of the small intestine and bands of inflammatory lymph, The pressure and irritation set up slight peritonitis, and finally, adhesions An early exploration will save life Handling of the bowel and tearing the adhesions, or snipping them with scissors, will do no Sometimes we cannot distinguish a mass of matted intestine from a tumor, as in the case of a little colored girl I opened the other day By the time we had separated the adhesions and liberated the intestines there was no tumor I think that in many cases a fatal result may be attributed to the opium treatment If any one will employ Epsom salts immediately after the patient comes out from the ether, where he now uses opium, he will never regret He will regret the use of opium

As to removing stitches, if we use silkworm gut we need not give ourselves any concern They may be left in indefinitely if we choose They will bear a strain of fifty or sixty pounds, and give no inconve-

nience of any kind

DR JOHN B ROBERTS The case of Dr White renders it appropriate to refer at this time to the historic case of Dr Levis, known as the "ethyl bromide death," which led to the abandonment of that anicsthetic in this city The patient was placed under the anæsthetic for lateral lithotomy, for there were but three or four of us at that time in favor of the supra pubic operation The skin was incised, but before anything more could be done the patient died larger, irregular stone, but smaller than this exhibited by Dr White, was found wedged into the neck of the The kidney was not markedly diseased, as

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of anæsthetic as was that of Dr White's patient had not fixed the day of operation twenty four hours earlier

cases Such stones can be much better moved by supra pubic operation than any of the perineal operations.

Dr. H A Kelly I had a case of referred pain due to the presence of fibroid tumors similar to that reported by Dr Keen There was much emaciation, constant cough, and a pulse of 120 She coughed whenever I touched the tumor I performed hysterectomy, removing with great difficulty a mass of tumors, amidst which it was impossible to distinguish the uterus The stump could not be brought up, and was treated intra peritoneally Cough has stopped, weight increased twenty pounds, pain is gone, and the patient is in the best of health and spirits

The indications for the treatment of the various kinds and conditions of herma are so different that it

is difficult to discuss them together

In one case, which I watched for years through many attacks, I finally made an autopsy The patient was very fat and the intestines protruded in a large mass which could never have been returned to the abdomen which had so long been accustomed to their absence The only operation possible would have been splitting the ring to relieve the tension In this sac I found the colon and the vermiform appendix with small intestine

I was called last fall to a case of strangulated umbilical hernia, and finding the patient collapsed and no time to be lost, instruc ed the husband to give chloroform while I operated with my pocket case instruments For suture I employed some embroidery sill lying on the table with which she had been mak-After releasing the intestines I split the ring and brought together the opposite side, thus obliterating the sac and curing the hernia permanently The patient has remained well since

The stretching of the scar in the so called ventral hernia after laparotomy is not a true hernia and not

liable to its dangers

Three weeks ago I saw a man who had developed typhoid symptoms, followed by rupture and escape of fæcal matter from the scrotum, due to the strangulation of an old incarcerated hernia of 25 years' standing, caused by jumping down a cliff in the Fort Pillow massacre The hernia was formed by a diverticulum from the bowel, and the whole mass, with the adherent sac, was one gangrenous mass which was removed in shreds, leaving a large opening in the bowel I had no good available tissue to close this, ard used his right testicle, which I fitted into the opening, and secured by a row of stitches around its circumference, being careful not to allow any stitch to penetrate the substance of the testicle This has healed perfectly in situ, and the bowels have moved naturally and regularly Some years ago Dr Hunter reported a case to this Society, in which a man repeatedly pulled his testicle up to support and inguinal hernia, when to his surprise one day it stayed there, and finally became adherent, curing the hernia

DR KEEN I think the difference of locality bethink Dr White is truly to be congratulated that he tween lesion and pain, referred to so much this evening, will probably explain the pain in my case would like to ask Dr Goodell which of the tumors There is another point of interest in both these in the specimen he would consider the original one?

DR GOODELL The intra mural one, The great diminution would hardly have occurred otherwise

DR KEEN A point elicited in our papers and discussion this evening is the reciprocal invasion of gynecological surgery by the general surgeon, and general surgery by the gynecologist Nothing but good can come from this It will be mutually advan-

DR BARTON I must bow to Dr Goodell's authority in the matter of removal of stitches, and yet my own tendency, growing out of experience, is to take them out earlier and earlier I think that by this I avoid suppuration There is a difference between the lax abdominal wall after the removal of a thirty or forty pound tumor, and the tense condition of that wall after operations of the class I have been most engaged in In these the great tension often causes suppuration if they are permitted to remain long In order to afford support after removal of stitches I have been in the habit of taking two large pieces of adhesive plaster and cutting a series of tails upon each and fastening one piece on each side of the abdominal incision These plasters are long enough nearly to reach the spine on each side, they are laced in front with heavy thread and are tightened as necessary by taking up the slack in the thread

GYNECOLOGICAL SOCIETY OF CHICAGO

Regular Meeting, March 23, 1888

THE PRESIDENT, HENRY T BYFORD, M D, IN THE

(Concluded from page 663)

DR J C Hoag read a paper on

SOME CONSIDERATIONS REGARDING DEATH OF THE FŒTUS IN UTERO

A careful inquiry concerning the comparative frequency of premature expulsion of the impregnated human ovum can scarcely fail to surprise the physician, although anything like statistical accuracy in its determination is, for very obvious reasons, an utter impossibility In making up an approximate estimate, one must needs remember that the impregnated ovum is often discharged at a menstrual period without the patient's knowledge of any unusual circumstance beyond an increase in the discomforts which often attend menstruation, and which are not infrequently attributed to trivial causes To say nothing of the patient's ignorance, the physician himself is frequently unable to decide whether such an occurrence has taken place, even after an examination of the menstrual discharges

Good authorities are of the opinion that we may safely reckon one case of abortion in the first months of pregnancy to every eight or ten cases of partun-

Accordingly, the importance of | Charpentier's work as follows tion at full term careful study, to ascertain as fully as possible the whole, the ovum represents a membranous sac comproximate causes of this occurrence, cannot be overestimated, and still the writer believes that there is evidence of great apathy on the part of the profession in this respect, as evidenced in the very terms employed in classifying the causes of abortion convenient term "habitual abortion," for example, is one which cloaks a great part of our ignorance of Such an expression as "abortion from unknown causes," would at least be preferable as holding forth in its very confession of ignorance an inducement to explore its unknown depths

As an example of the unsatisfactory state of our knowledge in this direction, one need only turn to In an inthe reports of large lying-in hospitals teresting analysis1 of two years' work in Prof Gustave Braun's Clinic, 6,230 labor cases are reviewed Premature labor occurred in 565 cases, the causes being tabulated as follows

Syphilis	(about) 70
Pulmonary tuberculosis	9
Peritonitis	2
Other fevers •	23
Faulty placental insertion	10
Vitium cordis	I
Injuries	, 7
Eclampsia	I
Induction of labor	4
Twin pregnancy	43
Total	170

This leaves 395 cases to be relegated to the category of the unknown

In Braun, Chiari, and Spaeth's analysis of 7,835 cases of labor occurring in the Vienna Hospital for the year 1850-1851, 393 cases of premature labor are ıncluded cause be definitely determined

Causes of the Premature Interruption of Pregnancy These may be considered as they relate, 1st, to the father, 2d, to the mother, 3d, to the ovum, and 4th,

to traumatism

Causes referable to the father -These are constitutional vices, particularly those of syphilitic origin

Causes referable to the mother -Those include general and local diseases, climatic and hygienic influences, and finally certain idiosyncrasies which seem to be productive of abnormal irritability on the part of the uterus, even in the absence of recogniza-

Causes referable to the ovum — These comprise all diseased conditions of the fœtus and its appendages Traumatism includes accidents, efforts at criminal

abortion, and the justifiable induction of labor

In considering the subject of abortion in general, one can scarcely fail to be struck by the disproportionate frequency in multiparæ, and this seems clearly to depend on local diseases, such as endometritis, metritis, and uterine displacements

"Considered as a posed of two membranes peculiar to it, the amnion and the chorion, and of one membrane of uterine origin, the decidua, a sac which contains the fœtus, the cord, the placenta, and the amniotic fluid Each of these parts may be the seat of lesions constituting the pathology of the ovum"

If we exclude attempts at criminal abortion and the justifiable induction of labor, traumatism may be said to include only a small proportion of the causes of abortion, thus, in the two analyses above referred to, we find only fifteen cases referable to injuries in These figures, would not, howa total of 904 cases ever, represent the proportion in private practice But whatever may be the mediate causes of the in terruption of pregnancy, the death of the ovum is almost without exception the immediate cause of the awakened uterine activity and the premature expul

sion of the product of conception

Death of the fœtus may be determined by dis turbances of nutrition, due to faulty development of the ovum, and especially its appendages, which lead to abstraction from the fœtus of its supply of nutri This may occur when the energy ment and oxygen of growth in the membranes is so considerable as to unduly divert the blood supply to their develop ment at the expense of the fœtus, or when suddenly or gradually the exchange of blood between the mother and the fœtus is obstructed or destroyed, the one condition prevailing in cases of inflammation of the membranes, which, when affecting the chorion, results in the formation of moles, the other when the uterine mucous membrane is the seat of the chronic inflammation known as endometritis decidua

Again, the exchanges between fœtal and maternal In only 126 cases, or one third, could the blood may be impaired by maternal hæmorrhages, whether from the uterus or from other organs, thus, in cases of hypertrophic development of the tufts of the chorion, the fœtal vessels may be so compressed as to fill the maternal blood-spaces, as seems to be the case in syphilitic disease of the membranes Extravasations from the placental vessels may also compromise the circulation of the fœtus, and when These extravasations extensive cause its death may be produced by comparatively slight mechanical influences, in cases where the vessels have very thin and delicate walls, and particularly in cases of fatty infiltration consecutive to endometritis extravasations may be caused by local hyperæmia due to the abuse of alcohol, or to fever, uterme displacements or organic diseases of the heart, lungs, or liver

As for syphilis, this may cause the death of the fœtus either primarily or secondarily velops late in pregnancy, the fœtus may reach full When it develops earlier, it is much more likely to result in the interruption of gestation

The point of this paper is to draw attention to the With regard to diseases of the ovum I quote from influence of endometritis, in determining the pre-1 Klinische Mittheilungen über Geburt u Wochenbett, etc., aus den Jahren, 1881, u 1882, von Dr. C. Fürst.

2 The terms premature labor, abortion, miscarriage, immature de livery, etc., are so variously used that the writer prefers to quote the exact expressions used by the different authors of this disease is a matter of daily observation, and

subject of habitual abortion With this we content ourselves, whereas, no doubt, a careful study of these cases would often lead to the discovery of a patho logical cause of remedial nature. That a lack of fecundity on the part of a woman is often due to an endometritis, and is overcome by a cure of the diseased condition, is a matter of frequent clinical experience That systematic writers mention the rôle played by endometritis in the production of abortion, the prophylactic measures in the prevention of abortion, is of course, true, but it may be safely asserted that the great importance of this subject has not been sufficiently insisted upon, and that, if attention be especially directed to it, the causes and treatment of so-called habitual abortion will soon become much better understood

In endometritis, extravasations into the hypertrophied tissue of the decidua often take place the disease is of moderate extent, or if it develops late in pregnancy, and does not involve the placenta itself, it may be borne without influence upon the development of the fœtus If, however, it develops earlier or in a severer form, it may often compromise the life of the fœtus by leading to endometritis decidua with its hyperplasia, extravasations, and fatty infiltrations labor, when it comes on, is apt to be complicated by adherent placenta with its consecutive dangers The frequency with which one meets examples of adherent placenta, in cases of labor which are otherwise normal, is to me a hint of a link connecting en- quested her to use the vaginal douche dometritis with abortion The discovery of the true grandest life-saving discoveries of all times, and in the pathology of pregnancy we have a field which before human lives

Report of Case —I now offer for your inspection a specimen of macerated fœtus with its appendages The patient who gave it birth was born in this State She is 24 years of age, well-developed, weighing about 160 lbs, 1s strong, and claims to have enjoyed married three years ago, her husband being a skilled meshanic of exemplary habits and enjoying fairly good health Seven months after marriage the patient gave birth to a macerated fœtus of six or seven months' development One year later, this occurrence was duplicated About a year and a half later still, she gave birth to the fœtus which you now see

The placenta of the first fœtus was somewhat adherent, and did not come away entire The patient spert two weeks in bed and, according to her own statement, was pretty sick Subsequent to this she enjoyed good health until after the birth of the second fœtus, since which time she has not felt as well as before marriage

A leucorrhœal discharge made its appearance after the birth of the second feetus, and has continued most of the time to the present day, and since this event,

to say she aborts because she has aborted, she is the slowed much during labor, and never at all during gestation

My acquaintance with the patient began on the 28th day of last December, when I was informed that she had reason to suspect that pregnancy had been interrupted, and requested an examination I had no hesitancy in pronouncing the fœtus dead, whereat she expressed great regret, caying she had long desired a child, and had believed that this time her hopes would be realized The examination revealed and mention the treatment of the disease as one of a doughy condition of the belly, which was not distended in proportion to the supposed period of gesta-The position of the fœtal parts could not be The os exturnum admitted one finger made out A thick muco purulent discharge, of disagreeable odor, was present in considerable quantity

As regards subjective sensations, the patient said that the last fœtal movements had been felt four days. before, and that they had grown gradually feebler before altogether ceasing She had also experienced sharp pains in the abdomen, and had noticed a feeling as though the fœtus had turned over, such as is often described in connection with a dead fœtus She had not, however, noticed the other sensations of mawkish taste in the mouth, languor, and a sensation of cold in the abdomen from stoppage of the fætal circulation, and concomitant abstraction of If the placental decidua be involved, heat from the uterus—a phenomenon, by the way, which has been made available as a diagnostic point in determining whether the fœtus has died or not

> I advised the patient that she might expect the expulsion of the fœtus in about ten days, and re-

On January 5, twelve days after the cessation of pathology of the puerperium has been one of the feetal movements, I found the patient in the second stage of labor, the pains having begun some hours I had barely time to offer support to the may be made productive of almost as rich harvests of feetus before it was discharged, with the membranes intact, the placenta soon following under the influence of gentle compression of the uterus The placenta was intact, and labor ended with a moderate discharge of blood With the exception of the presence of a small fresh coagulum on the surface of the placenta, a pale color, and considerable friability of very excellent health for the most part She was its tissue, I could discern nothing abnormal in its appearance

The fœtus itself is 14 inches long, and corresponds to the sixth month of development. It exhibits the usual appearances of maceration in the softening and separation of the epidermis, the dark discoloration of the corium, the flaccidity of the body, the separation of the cranial bones, and the looseness of the These appearances remain very much the same now as they were at birth, and you may judge

them for vourselves

Subsequent to labor the patient felt very well, with the exception of painful contractions of the uterus and distension of the breasts, conditions which received appropriate treatment. At noon of the sixth day of the puerperium, I was struck by the flushed appearance of the patient's face and, upon inquiry, found that she had awakened that morning with a her menstrual periods have been accompanied by severe headache, but it required additional interropain, headache and fever. The patient has never gation to elicit the fact that she had also experienced a chill (which she referred to as merely coldness of nor her husband has ever been the subject of syphithe feet), and some additional severity in the pains lis from uterine contractions up to this time had been nearly normal, was now not the occasion of her first mishap I believe that found to measure 100 5° The lochia was somewhat fetid, but the patient said she had passed no clots A vaginal examination revealed a subinwhatever voluted uterus The patient accordingly presented every appearance of one about to enter upon child-pregnant bed fever

At 5 o'clock PM the temperature was 1015° With the assistance of the husband I placed the pa tient upon her side and, introducing a Sims' speculum, proceeded to thoroughly irrigate first the vagina and then the uterus with a carbolic acid solution, employing for this purpose the long glass fenestrated nozzle with double curve, and facilitating its introduction and the subsequent procedures by the use of the double tenaculum forceps With a good-sized cu rette of a modified Sims' pattern, I next proceeded to scrape the placental site, with the result of bringing away what seemed to me an enormous quantity of soft pulpy material, composed almost wholly of set in a convenient handle fibrin and blood corpuscles, and which I now offer | bodies in the puerperal uterus is sure to obstruct the for your inspection this material as about equal to the volume of a 3-oz At first I was unable to reach the fundus uters with the instrument, but after repeated efforts, which resulted in bringing away consistent masses half as large as one's finger, I was able to reach every part of the endometrium Every stroke of the curette dislodged masses of fibrin, but even after a most vigorous scraping the endometrium at the fundus had a rough, knobby feel

Following the use of the curette with a renewed employment of the douche and placing some pencils of 10doform in the uterus, I arranged the patient comfortably in bed and was interested to measure her temperature It had subsided 1 5° The following morning I find the patient, after a good night's rest, with a normal temperature and feeling far more comfortable than at any time since her labor temperature remained normal for three days, when it exhibited a considerable exacerbation I accordingly introduced a Sims' speculum again and thoroughly douched the uterus The speculum was necessary, because I found it impossible to introduce even the convenient nozzle above described without it, and this leads me to remark, parenthetically, that after having employed the intra-uterine douche for of matter, if I deem a removal of it requisite nearly six years, I have reached the conclusion that it is occasionally quite impossible to administer it the specimen presented this evening, but will refrain without the assistance of the speculum, and that un- from a discussion of the minute pathological aspects necessary violence is often resorted to in attempting of fœtal death at present, hoping to make the subject In my case, even with the to introduce the nozzle speculum it was not easy to do so without the aid of the tenaculum venture the assertion that the physician often deceives himself in believing that he has administered an adequate intra-uterine douche when, in point of fact, the nozzle of douche has barely entered the After the second and last douching, cervical canal my patient made a rapid recovery In this case I am satisfied that neither the patient

The patient herself has undoubtedly long suf-The temperature, which fered from endometritis, although this was perhaps a repeated application of the curette in this case and the additional application of topical remedies will effect a cure of the endometritis, and enable her to give birth to a healthy child, if she again become

I have said nothing, however, as yet, with regard to another point which may have some bearing on the causal relations of feetal death in this case The patient has an abnormally slow pulse, the heart often pulsating as infrequently as forty four beats to the The relations of heart disease to pregnancy minute and parturition have been discussed by various authors, and Matthews Duncan has suggested the possible influence of such diseases upon the production of abortion

The more I use the curette in puerperal cases, the better pleased I am with it I prefer an instrument with a large scraping surface and with a long shaft, The presence of foreign I estimated the total bulk of progress of involution, and the depth of the canal is altogether disproportionate to the size of the retained decidual or placental tissue or coagulum Duncan has reported a case where a small bit of placenta was retained in which, at the time of the removal of the tissue eight months after the expulsion of the fœtus, the uterine canal was 8 inches deep. In my case I found that involution had made no progress at the time of the curetting and the instrument which I used, although 11 inches long, was almost too short

I cannot help feeling that the employment of the finger nail as a curette is a dangerous procedure It is of interest in this connection to note the results of some recent experiments by Prof Furbringer, as re ported in the N Y Med Record of March 10 The experimenter, employing for his subjects thirteen assistants and chiefs of clinics, required them to thor oughly disinfect their hands according to the most approved methods He then succeeded in extract ing enough septic material from under their fingernails to start colonies in twelve out of the thirteen

For my own part, I infinitely prefer the curette, which I do not hesitate to use in any case of abortion where I suspect the retention of even small quantities

I have made some microscopical examinations of one of more extended study at some future time

A word with regard to the management of labor in As a corollary to this proposition, I general may not be entirely out of place in this con I lean more and more to the side of connection I do not believe that it is servatism in obstetrics best to use even the vaginal douche after labor with out some special indication for it. As for the intrauterine douche and the curette, I think they are not very often needed, but that when either one of them

² Matthews Duncan, Clinical Lectures 1830

certainly I would not think of using the curette without both preceding and following its use with the douche Further, a single intra-uterine douche is thoroughly given, than a dozen

Finally, I would like to reinforce what I wrote in a previous paper, read before this Society, with regard to the value of auscultation and external palpation as enabling us to avoid frequently repeated vaginal examinations I have very recently read with great interest that Credé, always a conservative and successful obstetrician, has of late practically abandoned vaginal examinations, and teaches others to do so At the time when the paper above referred to was read, I was unaware that any one had ever definitely insisted on this point

Dr. P S HAYES I was glad to hear Dr Hoag say that there was difficulty sometimes in administering the intra uterine douche. His case brings forcibly to mind a case I had, where Dr Nelson was called in consultation The woman had a strongly adherent placenta. She had at the third or fourth month attempted to produce a miscarriage by the oil of tansy, or something of the kind, and had failed, but she had produced a good deal of irritation and, as a result, there was a strongly adherent placenta. I had to introduce my hand to remove the placenta. A few days afterwards she developed puerperal fever, and the strangest part of it was that apparently there was no odor I used intra uterine injections, and after one or two injections she had a chill and high temperature, and I found a difficulty in introducing the tube In order to introduce the tube, I placed my hand on the abdomen and pushed the uterus upwards and backwards, and when that was done, there was a free discharge of fetid lochia which had accumulated there While I did not use a speculum, I think if one had been used, and the tube carried to the fundus every time, the case would have required fewer injections to have made the good recovery which she eventually did make In this case there was undoubtedly an anteflexion of the puerperal uterus, which effectually closed the uterine canal and caused the accumulation of the lochia in the uterine cavity

DOMESTIC CORRESPONDENCE

"SPONTANEOUS" INFECTION

Dear Sir —There is but a single word in your excellent editorial ["On Spontaneous and Contact Infection in Puerperal Fever," THE JOURNAL, May 19, 1888], that I hope will not sink deep into the mind of the profession In contradistinction to contact infection, you recommend on the authority of Miculicz the term spontaneous infection I hope that the use of the word spontaneous will not prevail It has had too unfortunate a history in biological literature to be used in any ordinary sense with infection The signification that it acquired through the long discus-

is required, the other is apt to be needed too, and modified as to adapt it to use in this connection must hereafter mean what it did mean when the subject of spontaneous generation of bacteria was under Spontaneous infection in such a sense discussion often worth more to the patient, if properly and is, in the light of modern bacteriology, either an absurdity, or is calculated to deceive and perpetuate incorrect notions of infection There is no longer a doubt that infection means invasion with living mi-The spontaneous development of a human crobes organism in the uterus would be no greater miracle than the spontaneous development there of the infecting microbe Very respectfully,

BAYARD HOLMES, M D

1535 Bowen Ave., May 23, 1888

The use of the term spontaneous, in the designation of a certain class of cases of puerperal infection, is not free from objections, and Dr Holmes' criticism But we employed the word, in the ediis pertinent torial mentioned, in a sense strictly technical and clearly defined We still think the expression, spontaneous infection, as thus limited, preferable to the words auto infection or self-infection, chiefly because its exact, technical signification in surgical literature is well-known and very generally accepted use of words, as Professor Hill remarks, there is only one sound principle of judgment That principle is not etymology, but good use, i e, reputable, national and present use

The fallacy of ambiguity, that Dr Holmes points out in his friendly stricture, we think is apt to arise in the processes of the popular, rather than of the We are addressing a special class professional mind of educated men, and we have nothing whatever to do with popular impressions as to the meaning of this much abused word At the same time, we are prepared to admit that a better term may be, and probably will be, coined —ED]

SEXUAL DESIRE IN INFANCY

Dear Sir —The following seems worthy of record. as I am unable to find a case on record where there there was evidence of sexual feeling at so early an Female, aged eleven months, has always been When ten months old the mother first noticed well that when the child was left alone, on the floor, or bed, or in her cab, she would frequently go through some peculiar up and down motions of the pelvis, continuing thus for a minute or more, and then ceasing for the time The mother finally concluded the motions were made to satisfy a sexual desire, and that the child desisted only after experiencing something corresponding to an orgasm The father was sent to consult me about the matter, and as was natural, I was somewhat skeptical about the mother's diagnosis, and advised the father to have the case more closely watched and report again in a few days In a day or two the mother brought the child to my office, and stated that in addition to what the father had reparted to me, she had noticed that whenever the baby perceived that she was observed in her exercises, she would immediately stop and show every appearance of shame, ie, would cover her face, and sion between Bastian and Tyndall cannot so soon be appear confused and excited On examination of

the external genitals I was unable to discover anything unusual, except that the clitoris seemed a triffe large, and rather a brighter red than normal

The parents are perfectly trustworthy people, and could have no conceivable motive in misrepresenting So it seems to me we must accept this as a case of manifestation of sexual feeling and attempt to satisfy this feeling, in a child of less than one year of age M G SLOAN, M D

Dexter, Iowa, May 11, 1888

BOOK REVIEWS.

INTUBATION OF THE LARYNY By F E WAXHAM, Professor of Otology, Rhinology and Laryngology, College Physicians and Surgeons, Chicago Pages Published by Charles Truax, 75 and 77 Wabash Ave, Chicago 1888 Price, \$1 25

The present small volume is probably the most complete and best description of the subject of intubation that has been placed before the public Dr Waxham is already so well known by his numerous articles upon this subject that we need hardly say that his authorship of the book makes it authoritative

The history of the operation, the anatomy of the larynx as it pertains to the operation, the method of performing the operation, the after treatment and numerous illustrative cases are described The book is well illustrated and the publisher has made a very attractive volume

Intubation has succeeded so well in the hands of Dr Waxham and of others who have given it a fair trial that the profession have justly come to look upon it as a most important operation

MISCELLANEOUS.

NEW HAMPSHIRE MEDICAL SOCIETY -The ninety eighth annual meeting will convene in the Hall of the G A R, 15 Warren St, Concord, Tuesday, June 19, 1888, at 11 o'clock A M President, Dr S W Roberts, Wakefield, Secretary, Dr Granville P Conn, Concord

Association of American Medical Editors -The regular annual meeting of the Association was held at the Burnett House, Cincinnati, Monday evening May 7, 1888, and was attended by a larger number of representatives of the medical press than usual The President, Dr Wm Porter, of St Louis, delivered an interesting address (See The Journal, May 12, 1888) After the discussion of several questions, Dr Mathews, Chairman of a Committee previously appointed, re ported a constitution and By laws which were adopted Dr W C Wile, of the New England Medical Monthly,

Danbury, Conn, was elected President for the ensuing year, and Dr J C Culbertson, of the Cincinnati Lancet Clinic, Secretary and Treasurer The next annual meeting is to be held in Newport, R I, on the first Monday evening in June,

CONGRESS OF AMERICAN PHYSICIANS AND SURGEONS -Preliminary Announcement of the Committee of Arrange ments—This Association will hold its first triennial session in the City of Washington, during the 18th, 19th, and 20th of September next—The meetings of the Congress will be held in the evenings, beginning at 8 PM, and those of the Societies composing the Congress will be held during the daytime, ac cording to the programme each may respectively provide The

sessions will be open to the profession

The Local Committee of Arrangements of the Congress has secured places of meeting for the Congress and each society in close proximity, so that the members of the respective societies can interchange attendance at pleasure, without inconvenience.

It is the purpose of the Executive Committee of the Congress to print the programmes of all of the societies, provided

copies be supplied on or before August 15

The Local Committee requests the secretaries of the societies to forward the names of those of their invited guests who have accepted their invitations, designating them as Foreign and American

The Committee of Arrangements is composed of one member of each society represented in the Congress, as follows Samuel C Busey, Association of American Physicians, Wash-

J Ford Thompson, American Surgical Association, Washington

R T Edes, American Neurological Association, Washington E C Morgan, American Laryngological Association, Wash-

mgton W W Johnston, American Climatological Association, Washington

J E Atkinson, American Dermatological Association, Baltımore

A Sydney Roberts, American Orthopedic Association, Philadelphia

H Newell Martin, American Physiological Society, Balti more

Samuel Theobald, American Ophthalmological Society, Baltimore

S O Richey, American Otological Society, Washington. A T Cabot, American Association of Genito Urinary Sur

gery, Boston Inquiries may be addressed to the Chairman, Dr Buse), at Washington, or to the representative member of each society on the Committee

It may also be stated that the Committee of Arrangements of the American Gynecological Society, which will hold its next annual meeting in Washington at the same time, is composed of Drs Busey, Taber Johnson and King

HEALTH IN MICHIGAN, APRIL, 1888 -For the month of April, 1888, compared with the preceding month, the reports indicate that tonsilitis, influenza, and bronchitis decreased in prevalence

Compared with the preceding month, the temperature in the month of April, 1888, was much higher, the absolute humidity was much more, the relative humidity was much less, the day and the night ozone were about the same

Compared with the average for the month of April in the nine years 1879 1887, measles were more prevalent, and con sumption of lungs, intermittent fever, remittent fever, diphthera, pneumonia, bronchitis and scarlet fever were less prevalent in

April, 1888 For the month of April, 1888, compared with the average of corresponding months in the nine years, 1879 1887, the temper ature was slightly lower, the absolute humidity, the relative hu midity, the day ozone and the night ozone were slightly less

Including reports by regular observers, and others, diphtheria was present in Michigan during the month of April, 1888, at 20 places, scarlet fever at 43 places, typhoid fever at 15 place, and measles at 45 places

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS
OF THE U S NAVY, DURING THE WEEK ENDING
D A C 1888

P A Surgeon F C Craig, detached from Naval Hospital at Norfolk, and to the Naval Hospital at New York.

Asst Surgeon A R Wentworth, detached from the U S S "Galena," and to the Naval Hospital at New York

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U S MARINE HOS PITAL SERVICE FOR THE WEEK ENDING JUNE : 1888

P A Surgeon S C Devan, granted leave of absence for ten days May 29, 1888 P A Surgeon P M Carrington, granted leave of absence for

five days May 29, 1888

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

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No. 24

ORIGINAL ARTICLES

THE DIAGNOSIS OF PERICÆCAL ABSCESS, AND ITS RADICAL TREATMENT BY REMOVAL OF THE APPENDIX VERMIFORMIS

Read in the Section on Sirgery at the Thirty Ninth Annual, Meeting of the American Medical Association, Cincinnati, May 8, 1888

> BY THOMAS G MORTON, M D, OF PHILADELPHIA 1A

Abdominal surgery can show many brilliant achievements under modern antiseptic methods, but in scarcely another instance does an operation so completely afford its own justification, or when properly timed present such satisfactory results, as laparotomy when performed for suppurative appendicitis

PATHOLOGY AND CLINICAL HISTORY

It will greatly simplify the subject under discussion if we can first clear up the nomenclature, which, it would seem, has been more or less confused by the refinements of pathologists and others We are accustomed to certain distinct terms to express inflammation of the cæcum, of its peritoneal investment, and of the surrounding structures and cellular tissue

It would seem reasonable that all the niceties of diagnosis between typhlitis, perityphlitis, paratyphlitis and pericæcal abscess can properly be set aside, as without real practical value, since recent pathological researches have demonstrated that, as a rule, in cases presenting the well recognized characters of typhlitis, the symptoms are almost invariably due to appendiresides in the cæcum Fitz records but three cases in which pericacal abscess was caused by ulcerative instance it was due to the presence of a foreign body Pencecal disease may, then, in most cases, be said to mean disease of the appendix vermiformis

It seems hardly worth while to consider the conventional division of appendicitis into the catarrhal and ulcerative, for, clinically speaking, although an uncomplicated catarrhal condition may exist, there

are no signs by which it can ordinarily be recognized Inflammation and perforation of the appendix in most cases, very probably in all cases, is due to irri-

or an aggregation of small objects which from time to time have gained an entrance, or the concretion may be composed of epithelial or other constituents aggregated into a hard mass from the ordinary secretions of the parts

No complete or fully satisfactory classification of the cases of inflammation, perforation and abscess of the appendix can probably at this time be made, but for practical purposes, a division according to the onset and history of the disease, into the acute and chronic varieties, will probably fulfil all necessary

clinical requirements

In the acute disease, the symptoms come on with suddenness and increase in seventy, and often very early present the gravest characters Occasionally the disease progresses from first to last with frightful rapidity, so much so that the patient quickly enters a condition bordering on collapse In one case which recently came under my notice, the child perished with perforation and purulent peritonitis fortyeight hours after the first symptoms were observed

Possibly such extremely acute cases as the one mentioned might afford an opportunity for still further division into the ordinary acute and the supraacute, the latter running their course in a very short time, often in a few hours An explanation of these forms will be given later, when considering the pa-

thology of the subject

Recently I saw in consultation a case which presented marked symptoms of perforative appendicitis After the pus cavity was opened the patient became so profoundly exhausted that death seemed imminent and all further exploration had to be abandoned Surgical interference in many cases is unfortunately citis Exceedingly rare are the cases where the cause so long postponed that a favorable result can hardly be expected

The close proximity to the peritoneum of such perforation of the walls of the cæcum, and in each fetid pus as is found in suppurative appendicitis produces very early unusual depression and exhaustion, so much so that occasionally anæsthesia and simple incision is sufficient quickly to give rise to symptoms indicating heart failure. In such cases any further exploration of the abscess cavity is impossible

In the chronic forms of appendicitis, we have re-curring attacks or relapses Such repeated attacks of inflammation about the appendix region are often followed by a deposit of lymph which forms a barrier more or less complete, sufficient, when perforation tation excited by the presence of a foreign body in takes place, to protect the peritoneal cavity at least the organ It has been shown that the foreign sub- for a time But if operative measures are not understance is commonly a feeal or phosphatic concretion, taken or are unduly delayed, such lymph partitions often yield, and the general peritoneal cavity becomes involved and peritonitis results

In other cases the abscess walls form a distinct pus cavity which surrounds the organ, so that when perforation occurs, the contents of the abscess form a tumor, or more or less defined hardness Such tumors frequently make their way toward the surface, and the superimposed structures become infiltrated and markedly ædematous In such cases the perforation of the appendix may remain open and a fistula form between the bowel, the abscess cavity and strual period, the patient suffered with pain localized the external abdominal surface

In January, 1885, I saw a case of this character in consultation, in a lad ir years of age, who had all the symptoms of perforation and abscess of the appendix A tumor gradually developed and perforated about the same characteristics The last occurred in the abdominal walls incision and evacuated a large amount of pus general condition of the patient at the time did not warrant a search for the appendix The fistula never closed, the boy two years later perished from pulmonary tuberculosis In any abscess of the ileocæcal region, we should always suspect appendix disease, and an effort should always be made to expose this organ In no case should a simple evacu ation of pus be considered sufficient, especially if the history of the case presented any account of former appendix trouble A case of this character came under my care some two years ago, in which I simply evacuated an abscess situated in the ileo cæcal region, and made no investigation of the appendix, as the abscess cavity seemed a closed one Two years later I was obliged to make abdominal section and removed a diseased appendix, which undoubtedly existed at the time of the first operation

L A B, a stout girl of healthy parentage, and with no family history of cæcal or appendicular disease, had a severe fall upon the buttocks in March, She was almost immediately seized with a terrible attack of vomiting and retching, which lasted hours From this time until September, 1885, she suffered with extremely painful menstrual epochs, and from time to time, when tired, had a recurrence of vomiting similar to that immediately succeeding her fall On September 10, during the progress of one of these vomiting spells, she experienced severe pains in the right cæcal region, the whole seizure lasting about Another attack developed on September ten days 29, and still others on November 10 and 23 latter was brought on by taking cold, and in five hours she was compelled to go to bed, and endured the most excruciating drawing pains, which radiated from the right cæcal region to the shoulder blade of Vomiting continued for some hours the same side Emesis then ceased, but the pains continued off and on until January 10, 1886, when I first saw the pa-A hardening was then present in the right cal region Poultices and mercurial inuncıleo-cæcal region tions were ordered, which gave very marked relief She daily seemed to improve, and before March 19 was much overworked in caring for company, and dressing applied She reacted and continued to do about midnight was seized with torturing pains in the well region of the hardening

April 3, when I incised the now greatly enlarged mass, liberated a large quantity of fetid pus, and intro duced a drain tube There was apparently no commu nication with the cacum or its appendix. The tube remained in for a long time, and the wound did not completely close until August Her condition, however, had meanwhile improved amazingly, and she was soon quite herself again, being up and about the house in four weeks

After this, especially when tired out or at a menabout the cæcal region. The attacks resembled Three months after operation she had quite a severe attack of local pain which lasted a number of hours These attacks, at long intervals, presented Subsequently I made a free | January, 1888, which was accompanied by more se-The vere pain than any of the others

During the evening of Friday, March 15, she was taken with violent vomiting and purging These symptoms continued all night, and through Saturday when the pain was most intense. On Sunday her symptoms appeared grave Pain was increased on pressure in the right ileo cæcal region Abdomen soft, fever, rapid pulse and dry tongue On Monday the symptoms continued the same, with a tempera ture of 102° In the afternoon the general symptoms No tumor could be felt, only were more serious increased pain Skin was bathed with sweat There was marked resonance over the part On Tuesday the pulse was feeble, nausea and occasional sick The other symptoms remained stomach prevailed about the same, when diagnosis of perforated appen The same morning she dix with abscess was made was etherized, and the usual lateral incision 5 inches long was made, which came about an inch further laterally than the line of incision of the first opera The deep tissues of the abdominal wall were somewhat ædematous, and just before the peritoneum was reached, a large quantity of most fetid pus was At the base of this cavity was clearly liberated visible the cæcum and appendix The latter was enormously enlarged, thickly covered with lymph and abscess lining membrane A considerable sized opening also communicated with the cavity of the general peritoneum, through which small intestines were forced when she coughed

The appendix was firmly attached to the cæcum, from which it was separated with some difficulty It was then firmly ligated with stout silk at its junction with the cæcum and excised The communication with the general peritoneum was then dilated, and through it the intestines were most thoroughly washed by means of hot water irrigations The abscess car ity proper and surrounding parts were sponged with I 1,000 mercuric solution A glass drain tube was then carried to the bottom of the pelvis and brought out through the lower angle of the wound, while 3 larger rubber tube occupied the line of the same and emerged at its upper extremity

The incision was then closed and an antiseptic These continued until the following day and necessitated the cutting of all

the bottom of the wound, but no prolapse of intestine | tion and who conducted the after-treatment

at any time took place

Great sloughs kept coming away for many days, also much pus, in spite of every effort to keep the wound aseptic The deep glass or pelvic drain became dry on the fourth day and was removed on the From that time the wound was kept lightly packed with antiseptic material and rapidly granulated to the surface, when a few strips of rubber plas ter were applied.

Patient's bowels, from time of operation, were kept in a freely moving condition by means of citrate of magnesia and enemata In less than a month the patient was well, and has since been married appendix was found to be the seat of a very large perforating ulcer, situated near its cæcal attachment,

but no foreign body was discovered

The following case I saw in consultation with and operated upon for Dr Ed R Stone, of Philadelphia

Mrs G, et. 34, mother of one child, had been perfectly healthy up to time of last illness, save for occasional attacks of colic which had readily yielded to anodynes, and it was said that she had had a severe attack of pain and vomiting some months before For two days previous to February 18, 1887, she severely exerted herself and menses were overdue On that day she had severe abdominal pain accompanied by vomiting The pain was described as starting in the right hypochondriac region and darting to the umbilicus No tumor was perceptible, neither was there tenderness upon pressure dynes and counter irritation were ordered February 19, pain less, no emesis nor rise of temperature, some soreness and tenderness to the right of the um-Pain returns as anodyne effects pass off Bowels have not moved for several days Abdomen somewhat tympanitic, tongue coated and hard at tip Evening temperature 100°, pulse 90 Treatment continued

February 20 Restless night Vomits yellow material freely Abdomen tympanitic and tender 101°, pulse 110 Operation advised, but refused

February 21 Symptoms continue She is quieter but weaker Abdomen very large and tender the morning of this day I saw her and, although her condition was very unfavorable, urged abdominal section as her only chance for life, as my diagnosis was perforated appendix and subsequent peritonitis

A free incision was made laterally over the cæcal region, and the appendix found greatly enlarged and perforated in two places, both holes measuring a little more than 1/4 inch in diameter A silk ligature was placed upon the appendix close to the cæcum, and the offending organ then removed There was also purulent peritonitis The abdominal cavity was thoroughly irrigated, the region of abscess cleansed and a drain inserted She died in a few hours

The following case presents the prominent symptoms which are usually observed in cases of chronic suppurative appendicitis, and this patient has been benefited as much by the practical application of the principles of modern wound treatment as any human creature ever can be He was a patient of Dr

the stitches, whereupon the cacum lay in full view at Frank Woodbury, with whom I saw him in consulta-

Charles K, at 26 years, had enjoyed good health until three years ago Since that time he had been subject to frequently recurring attacks of abdominal pain, which would come on without warning whilst he was apparently well, and completely prostrate him. The pain was of a stabbing character and most severe about the lower abdomen and umbilicus, and was attended with great tenesmus of rectum and irritability of bladder These attacks, after lasting a few hours, would usually pass off, leaving him in a weak condition During the periods between attacks The last seizure began about he kept very well April 20 last (1887), when he consulted Dr Woodbury He was then haggard, sallow, and constipated, the tongue was heavily coated Abdominal pain was much complained of Urine contained much albumen and few casts He was placed upon usual medicinal treatment, but steadily grew worse Two days later his temperature rose to over 103°, pain became very severe, there was much nausea and vomiting, and a distinct hardening, but no tumor could be felt in the right iliac region of the abdomen These symptoms continued to augment until I saw him three days later, and determined that operation was his best and only chance. At the time of operation his condition was discouragingly wretched, that of a man in the dying stages of general purulent Nevertheless, operation was begun and peritonitis carried to successful termination The patient was stimulated and antiseptically cleansed The incision was made laterally over the seat of induration latter had now become slightly prominent An abscess cavity was entered at the depth of an inch below the abdominal surface, a free flow of pus took place and the cæcum and its diseased appendix came into view A phosphatic concretion resembling a cherry stone was found alongside that organ, but entirely outside it, and evidently was the cause of the whole trouble The vermiform appendix was greatly swollen and exhibited a perforating ulcer three-fourths around its circumference and very near to the point of its cæcal attachmert A silk ligature was applied close to its root and the remainder excised, together with a large portion of omentum which projected into the abscess cavity The peritoneal cavity was then thoroughly washed out with warm water, for an opening into the general peritoneum was found, and through it the pus had passed into the cavity of the peritoneum. The abscess walls were then thoroughly curetted and, after a final wash, a rubber drain was carned to the botttom of the pelvis and the wound On the following day, drainage was partly closed being imperfect, every stitch was removed, the wound gaped immensely, sloughs came away, healthy suppuration was established and granulations appeared, and the wound promptly closed

Convalescence was uninterrupted from this time, his temperature never again reached 100°, and he has enjoyed perfect health until the present time The drain was removed piecemeal, the last portion not until sixteen days after operation

In the following case the result was less fortunate

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cavity which surrounds the organ, so that when perforation occurs, the contents of the abscess form a tumor, or more or less defined hardness Such tumors frequently make their way toward the surface, and the superimposed structures become infiltrated and markedly ædematous In such cases the perforation of the appendix may remain open and a fistula form between the bowel, the abscess cavity and strual period, the patient suffered with pain localized the external abdominal surface

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The incision was then closed and an antiseptic dressing applied She reacted and continued to do Immense swelling of the wound occurred on These continued until the following day and necessitated the cutting of all

TREATMENT

For practical purposes, the treatment of pericrecal inflammation must be divided into two subdivisions, that of the pre purulent and that of the post purulent or suppurative stage, or first, before the formation of pus, or of appendix perforation, and second after that event

The treatment of the pre-purulent, irritative or simply inflammatory disorders of the c ecum and its surroundings, should consist of rest in bed, restriction of diet to nourishing liquids, hot poultices or fomentations frequently replaced upon the parts, perhaps local depletion, and the hypodermic exhibition of morphia to control pain The bowels should be kept open and free from the accumulation of gas or feces by the administration of saline laxatives and enemas, perhaps with the addition of turpentine to the latter

Pain of intense character, would often be as much an indication for operative relief as for morphia

Prompt resolution should take place in cases which are not to go on to the stage of pus formation, and very long continuation of symptoms or relapses or recurrences would be strong indications for surgical interference

The presence of such tedious recovery, relapse or recurrence, would point to the probable presence of conditions exceedingly dangerous to the patient, from hability to general peritonitis or perforation at They would further point, as a rule, to the appendix as the source of irritation and danger, region under consideration

Where the process has reached the suppurative stage, and this condition has been recognized, the course to be pursued is, indeed, very plain Even a small amount of pus lying near the peritoneum is vastly more of a risk than an abdominal section performed for its removal Hence, I should operate whenever the diagnosis of pus has been made occasionally even without positive diagnosis-indeed, without qualification, I repeat, that pus being present in the region of the cæcum, operation is positively ind.cated

Many other risks are to be taken rather than those of purulent peritonitis, for early interference will save most, if not nearly all, cases from this latter dread slight compared to that of rampant abdominal inflammation

Local or general peritonitis supervening in a person who has a history of crecal trouble or starting during a first attack would more than justify op eration

At a later stage of the disorder, all available diag nostic skill must be everted to detect a pericæcal abscess, should it point in an anomalous situation We must ever, however, bear in mind the surgical rule always to attack pus at its source if possible When the crecum is normally placed, this is always feasible if the disease be recognized

THE OPERATION

On account of the nature of the case, there is little time for special preparatory treatment for The surroundings of the patient the operation should correspond with the usual requirement for abdominal operations Asepsis should be rigidly observed in every particular

The aspirating or exploring needle should never be used for diagnostic purposes, for if it does not find pus, we cannot be sure that none is present, while its own dangers are not inconsiderable these cases it is a dangerous and especially unsafe diagnostic resource

Having the patient supine and extended, the field of operation is to be thoroughly cleansed, shaved, and washed with a bi chloride solution I 1000 and finally with ether Towels wrung out of the mercuric solution are placed to protect the field of operation

The line of abdominal incision should be slightly oblique or vertical, not median but lateral.

The advantages of the lateral incision are very obvious and positive If median, the peritoneal cavity would often be opened needlessly, and at a point far remote from the cæcum and appendix, and in a position in which the cæcum and appendix cannot well be reached or dealt with The lateral incision can be made of less size and directly over the appendix and abscess cavity Moreover, in this situation, small circumscribed or secondary abscesses in the abdominal wall, which are sometimes come upon, indeed, in man, that worse than useless appendage can be evacuated before the peritoneum is reached, must be regarded as the root of most evil in the and at its base all necessary manipulations can be made in many cases without opening the general peritoneal cavity at all, while, should the suppuration have extended in this direction, the intestines can just as well be examined and cleansed through a lateral as through a median incision Should there be subsequent sloughing of tissue, as frequently occurs, the sloughs can be far more readily discharged through an opening immediately over the locality of the disease than if it were situated elsewhere, while drainage can be much more thoroughly accomplished by a lateral incision The length of the incision depends upon the conditions found after the abscess cavity is reached an incision three or four inches in length will often be sufficient for the removal of the appendix, but in case there is a large complication, while the danger of operation becomes abscess cavity it can be increased to any desired

> The favored or lateral incision should began at a point about an inch above the middle of Poupari's ligament and to the outer side of the right linea semilunaris, to be continued from this point upwards in a vertical direction, or outward and upward, and carried down until pus, cæcum or peritoneum shall be reached From numerous dissections, made with a view to determine the ordinary position of the appendix vermiformis, I have found that this organ is normally placed immediately under a point two inches distant from the right anterior superior iliac spinous process, on a horizontal line drawn from this process towards the median line of the body

When the abscess cavity is reached, gas is usually The wound can then be enlarged first discharged if necessary, in order to fully expose the cavity Irrigation with boiled water at a temunderneath perature of 105° or 110°, and careful sponging, now permits a clear view to be had of the surroundings of tion of fæces or a foreign body in the cæcum itself, the cæcum, and its appendix The latter is usually found to be the seat of trouble It would be well to excise it in any case, whilst we have the chance, for any cæcal trouble would be likely, in time, to excite disorder in its appendage Without a doubt it should be so treated, if found inflamed, perforated or harboring foreign bodies This can best be ac complished by ligating it as close as possible to its cæcal attachment with a strong silk thread, and then of an artificial anus Recent experience in cases of cutting it off beyond the ligature Cæcal perfora tions if found, should be cleaned and curetted, and that the abdominal wound should never be closed, ' closed by Lembert's suture, even ulcers which except perhaps in the simplest cases, where no pyo not perforated might by the same means be genic membrane exists. Where there is any degree ed into the bowel lumen If the general peri- of suppuration, sloughing or pyogenic tissue, the ab cavity has not been involved the walls of the dominal wound is certainly best treated by the open abscess should be gently curetted, washed with a method mercuric solution 1 1000, and a large drain carried to the bottom of the wound and brought out at its most dependent part The external wound should, with the exception of a suture or two, be left thus to afford free vent to pus and the results of de thoroughly open, and lightly filled with an antiseptic dressing A rope of absorbent cotton should be placed in the glass tube, a large mass of cotton should cover the abdominal and wound surface

four tailed flannel bandage completes the dressing The question of using Lembert's suture after amputating appendix, as has been suggested, is of no practical importance The constricted or tied portion which is very close to the cæcum must close by granulation, indeed, the situation is very similar to that existing when Fallopian tubes are ligatured and removed for suppurative salpingitis No one would think of using a Lembert suture in such a case Moreover, I have found it impossible to employ such sutures after appendix excision, because the tissues being cedematous, infiltrated and friable, will not permit it The attempt to approximate them only causes Cæcal perforations are the threads to tear through As already said, the attempt should be made to close such with Lembert's suture if possible, but even here the gut can be lifted up by tenacula and perforation obliterated by a silk ligature

If the general peritoneum has become involved, the whole abdominal cavity must be thoroughly washed out with hot distilled water, temperature 105° to 110° F, or bichloride of mercury solution 1 10,000 The intestines should be cleansed with sponges and the foreign body, if that has been the source of the perforation, searched for Should peritonitis be far jection of morphia may be required to relieve pain advanced, the intestines must be withdrawn and all adhesions parted with a finger or a knife During the rules of abdominal surgery are observed process of cleansing, and before they are returned to ton rope should be changed in the tube every few the peritoneal cavity, they should be thoroughly protected with towels wrung out of hot water In all gated with a weak carbolic acid or other antiseptic, cases of general peritonitis a glass drainage tube especially where, as is often the case, the secretions must be carried to the bottom of the pelvis and kept are offensive in character in working order by means of ropes of absorbent there will generally be no need of a second or supercotton which act by capillarity In some cases it ficial drainage tube, as the discharges will be at once

may be well to use a second tube of rubber for the more superficial or pericæcal cavity, but if the wound is treated by the open method, this second tube can be dispensed with

Should the cause of the morbid process be impac they must either be excised, or urged by prudent force along the bowel In their operative removal a simple incision, afterwards brought together by Lem bert sutures, would answer every purpose If por tions of the cæcum have sloughed and the breaches of continuity are too large to approximate with Lem bert sutures without producing dangerous constne tion of the gut we must be content with the formation appendix abscess has led me to the above conclusion By this I mean that, with the exception of one or two points of suture, or perhaps no sutures at all, the wound is allowed to remain open, so as to favor granulation from the bottom of the cavity, and structive inflammation Doubtless the cæcum will be exposed, but it will not protrude, and need not lead us to anticipate the slightest difficulty portion of the bowel is in a comparatively fixed post tion and will always afford a barrier to the protrusion After the wound has granu of the small intestines lated to the surface if there is any disposition in it to gape it can be readily approximated and held in posi tion by strips of rubber plaster The same general principles of treatment will hold even for those rare cases of displacement of the cæcum as into scrotal and other hernia, its abdominal transposition, etc important question in these cases will be the diag nosis

It can properly be said that there is no fixed rule for the time of operation in cases of abscess of the ileo cæcal region All I can say in summing up the subject is that when symptoms strongly suggestive of the presence of pus are seen, it is far safer to operate at once than to wait Procrastination in such cases really means even more than surgical uncertainty This uncertainty can be set aside only by an explor Delay is productive of the gravest atory incision consequences to the patient, the prognosis growing worse every hour that the operation is postponed

AFTER TREATMENT

Immediately after the operation a hypodermic in or check vomiting or restlessness Before it is replaced the tube should be im

absorbed into the superimposed dressings. The time for the removal of the glass drain from the pelvis will depend altogether upon the subsidence and character Frequently the tube is gradually of the secretion forced out by the action of the intestines themselves and at the proper time The abscess cavity should be treated exactly as such foul abscess cavities would The closbe treated in any other part of the body ure of such a putrefying tract would only add to the danger of the patient without a single compensating advantage

The bowels should be kept in a soluble condition by salines, threatened peritonitis should be met by active purgation by salines, milk should be given in small doses and at short intervals, and stimulants are generally required Where there has been much exhaustion and considerable suppuration champagne

should be admimistered ad libitum

Typhoid or tubercular crecal, or appendicular inflammation or perforation likewise should receive identical treatment as for the simple inflammatory disorders of that region This whole subject is still in its infancy, so far as the majority of the profession are concerned, but it is of almost boundless promise

REPORT ON INTUBATION

Read in Section on Diseases of Children, at the Thirty ninth Annual Meeting of the American Medical Association, May 10, 1888

BY F E WAXHAM, MD,

PROFESSOR OF OTOLOGY, LARYNGOLOGY AND RHINOLOGY, COLLEGE OF PHYSICIANS AND SUCCEONS OF CHICAGO CLINICAL PROPESSOR RHINOLOGY AND LARYNGOLOGY CHICAGO OPHTHAL LIC COLLEGE

Intubation of the laryn, while not perhaps fulfilling the expectations of some has, nevertheless, within the past year gradually grown in favor and more extended experience has proven the full value of this procedure An occasional physician has met with such signal failure as to disparage the operation and to abandon 1t The same however may be said of tracheotomy, and it is no argument against the oper-

As the full value of an operation can be determined only by a careful investigation of the results in quite a number of cases, I here present a record of my first 150 operations, and although this number is not large it is sufficient to fairly demonstrate that intubation of the larynx possesses nearly, if not quite all the advantages claimed for it In none of the following cases has the operation been performed until severe and increasing dyspnœa has demanded surgical interference In a few instances where I have been called in consultation I have declined to operate beheving that the patients would recover without it Frequently I have delayed operating during my first visit but being subsequently called found it necessary to do so in order to further prolong the life of the In the great majority of cases I was called in consultation with other physicians and the operations performed as a last resort, after all other modes of treatment (excepting tracheotomy) had been found useless and the patients practically given up to die

In the New York Medical Record, of Oct 29, 1887, Dr O'Dwyer reports 50 cases, with 12 recoveries, and in the New York Medical Journal, of Jan 14, 1888, an additional 50, with 15 recoveries, making a total of 100 cases, with 27 recoveries, or 27 per cent

I have within the past year collected, by inquiry and by letter, as well as from published reports, records of 1072 operations performed in various parts of the United States, with 287 recoveries, or 26 77 per cent In 661 cases the ages were given and were as follows

No of Cases	Age	Recoveries	Percentage
31 97 149 140 98 56 27 32 12 10	Under 1 yr 1 year 2 years 3 " 4 " 5 " 6 " 7 " 8 " 10 " 11 "	5 15 29 42 32 19 10 16 5 5	16 12 15 46 19 46 30 00 32 65 33 92 37 03 50 00 41 66 50 00 40 00 00 00
Total,661		181	27 38

The most unpleasant feature of intubation has been the mability of the patient to swallow liquids Solids and semisolids frequently have not been relished or properly digested, and the craving for water has often been so great that parents have sometimes regretted the operation and have blamed the physician for prolonging life and adding an additional cause of suffering It is undoubtedly true that the falling of fluids and solids through the tube and into the bronchi is frequently the cause of broncho-pneu-I have long been at work endeavoring to devise some means of covering the upper opening of the tube during deglutition, and thus overcoming this objectionable feature of intubation The first device for this purpose was the rubber epiglottis exhibited to this Society one year ago While this arrangement was satisfactory in many cases yet in others it would often fail on account of becoming disarranged during the introduction of the tube or later from coughing After much thought and many experiments a metal epiglottis was devised as a substitute This metal epiglottis is controlled by a spring of gold wire inclosed in the hinge at the upper end of the tube the patient swallows, the metal cap is pressed down over the opening of the tube and solids and fluids are prevented from passing into it To prevent sudden suffocation in case any accident should occur to the spring, a slot is made in each side of the head of the I have used this device with tube and near the rim great satisfaction, and the ability to swallow liquids is particularly noticeable in the older children. They

¹ See pages 740 741

=		- ₁			ON INTOL				[June 16,
	Age	Date	In Consultation with—	Termina-	- Cause of Death	time tub	Fime dof occurred after	Diphtheriti	c Membrane
1	2) rs 1 mo	Apr 19 1885	In my own practice	Fatal	Extension of mer	'			
2	3 years	Apr 23, "	In my own practice	"	brane to bronch: Extension of me	1	36 "	""	Present in laryn.
	16 months	July 16, "	Drs Hatfield & Ca	s ''	brane to bronchi Extension of me and exhaustion,	m 24 hours	26 "	Severe	" " phar and
6	5 years 2 yrs 7 mos 20 months	Sept 15, " Sept 24, " Nov 3, "	Dr Behrend Dr Richardson Drs Appleby & Dal berg	1	Preumonia	6 days 6 days 4 days	6 days	Mild Severe Mild	" "larynx In phar, lar and trac In larynx
7	4 years	Nov 9, "	Drs Bosworth an Nelson	d Fatal	Exhaustion	48 hours	48 hours	Malignant	In pharynx and laryn:
9	3 years 2 yrs 2 mos 5 years	Nov 16, " Nov 13, " Nov 20, "	Dr Kossakosski Dr Kossakosski Drs Hatfield & Ca	Recovery Fatal	Extension of mem	30 hours 14 days 50 hours	30 " 50 hours	Mild	44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	5 years 5 years	Nov 21, " Dec 2, "	selberry Dr Valin Drs Caldwell and O	Recovery	1	5 days		Severe, follow	
1	3 years	Nov 30, "	Dr Holroyd	Fatal	Extension of men	n 36 hours	36 hours	ing measle	
5 4	f years f years g years	Dec 3, " Dec 9, " Dec 11, "	Dr Dahlberg	Recovery		4 days 3 days		Mild	
,	yrs 9 mos	Jan 4, 1886	Dr Pierpont, of Ei glewood Drs Quine & Willar	dRecovery	Pneumonia	48 hours	48 hours	Severe Absent	In nares phar and lar
ľ	years years	Jan 9, " Jan 12, "	Dr Miller, of Ker sington Dr C E Caldwell	Fatal	Exhaustion Extension of men	24 hours	24 hours 24 "	Severe	In pharynx and laryn
	years years	Jan 13, " Jan 22, "	Dr C E Caldwell Dr C Caldwell	66	brane to bronchi Pneumonia Extension of mem brane to bronchi	36 hours	36 " 48 "	"	
1 1	years yrs 2 mos 4 months	Jan 25, " Jan 26, " Jan 28, "	Dr Dahlberg Dr Dyas Dr Berry	11	Exhaustion Diphtherit toxæmi Pneumonia	48 hours a 24 hours 48 hours	48 '' 24 '' 48 ''	Mild Malignant Severe	66 16 14 66 14 6
1	r months 13 months 1 years	Feb 6, " March 1, "	Dr C E Caldwell In my own practice Dr Steele	"	Exhaustion Pneumonia		24 " 24 " 48 "	Severe	In nares, phar and la In pharyna and laryna
7	years years	March 5, " March 6, "	Dr McGinnis, o Brighton Dr Hoadley	f "Recovery	Extension to bronch		60 "	" Mild	ee e ee
2	years	March 8, "	Drs Kippax & Adam Dr R L Rea		Extension to bronch	48 hours 24 hours	72 hours	Severe	
sls	years months months	March 11, " March 13 " March 15, " March 25, "	Dr Behrend In my own practice Dr Wm E Hall	"	Pneumonia Exhaustion	72 hours	48 " 88 " 24 "	"	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	years	March 25, "	Dr Van Doozer	"	Suffocation from de tachment of mem brane after remov al of tube	24 hours	2 ; "	Mild	
Γ	, ,	· ·	Dr Chas E Caldwel		Extension of mem brane to bronchi	,	36 ''	Severe	
7	years years	March 31, "	Dr McWilliams Dr Parsons	1 1	Extension of mem brane to bronchi	[Mild	
	years years	April 28 "	Drs Fenger & Storck Dr Lawless		Extension to bronche S u ff o c a tion after ejection of tube		48 '' 24 ''	"	a 1 4
3		May 3, "	Dr Tillotson Dr Berry Drs Steele & Lawless		Pneumonia	2 days 48 hours 86 hours	48 hours	Severe	44 44 44 44 44 44
2	years	Мау б, "	Dr Clendenning Dr D Collins		Extension to bronchi		30 hours	" following scarlet fever	44 44 44
3	4 months	May 20, "	Dr Tillotson Dr Tillotson Drs Johnson and		Uremic convulsions Heart failure		8 hours	Mi'd Severe	In phar, lar and brenc
5			Mannheimer Dr McDonald Drs Johnson and		Diphtherit toxæmia Exhaustion		days 2 hours	"	In pharyn and larynx In nares, phar and lar
l		·	Mannheimer Drs J H Hollister and Goodall				6 '' 2 days &	ľ	In pharyox and laryox.
ı	,		Dr Clendenning Drs Bogue and Shep		-	1	12 hours	Severe	u u u
ı	o months	June 11, "	herd Dr Burbank	fr croup Fatal H	Exhaustion		4 hours	" Mild	11
9	years menths years	July 28, ' Aug 16, "	Dr Thomas Dr J V Bacon In my own practice Dr McDa itt, of Wi	" E	Exhaustion Extension to bronchi	24 hours 2	days		n laryna
ŗ	, ,	Sept 2, "	nona, Minn Dr Bates	46	xtension to bronchi	days	days	• • •	n pharyny and lary a
	years years	Sept 12, " Sept 27, "	O. D	Pecovery	extension to bronchi	" 2	days		
2 2	3 months 3 years	Sept 29, "	in my own practice Dr Iallman, So En	Recovery	reumonia	3 ;;	days	" "	· ·
5	2½ years	Oct 7, "	glewood In my own practice Drs Emrick and Dal	_" E	xtension of memb		hours S	ii ii li	phar, lar a 11 a br pharynx ard ar, E
٦ŀ		Oct 12. "	Dr Barlow	Fatal Recovery	Atension to bronem 4	days		vell marked in	

1888]		REPO	ORT (ON INTUBAT	rion			741
1000]						Time d th		
å Aze	Date	In Consultation To	ermina tion	Cause of Death	Length of time tube was worn	occurred after	Diphtheritic Symptoms	Membrane
6.7 years	Oct 40 180e	Dr Tallman F:	atal	Pneumonia	4 days	7 - 7	Well marked	In pharynx and larynx In phar , lar and bronchi
2 Zerre	Oct 21			Extension to bronchi Convulsions	24 hours	24 hours		In pharynx and larynx
12 yrs 10 m0	Oct 21 Oct 31	Drs Steele \ Riley Dr Berry		Extension to broach	36	'36	. }	
7 3 \ear	Nov 6	Drs Oliver - Kauf	1	Pneumonia	٥٥	36		
-413 months	\o. 11,	Dr C W Earle	!	Exhaustion	12	12	Severe	
1 to Jears	Nov 13	Drs Webb & Lackner	•	Heart failure	dans	24 3 days		
J3 years	101 13	Dr Behrend Dr Lackner	1	Broncho pneumonic Extension of mem	2	2		**
,,,5 years		1		b ane to bronch	1	2 days		
, o years	VOI 13	Dr Roy of luburn	·	Extension of mem brane to bronchi			,	4
عمع وأبرر	Nov 24 '	Dr. Bates and Mul R	ccovery		3	1	Well marked	
£√3 years	\ov 0	Dr Mel	atal	Extension to bronch	11 2	2 days	Severe	In nares phar and lar
Tr'iS months	Dec 1	Dr Larlov			24 hours	24 hours 24	Malignant	In pharyny and laryny
es 4 sexts	Dec. 1 Dec 2	Dr Bert		Exhaustion Broncho pneumoni	24 2 days	2 days	Severe	•
* t Acres	Dec o	Dr C E Caldwell Dr J G Berry		Pneumonia Extension of memb	2	2 2	1	4
ē, 21∼ years. 54 years	Dec 20 Dec 20	Dr Larkin S Chicago		Extension or mean	'2	,2	Well marked	٠ .
74 years	Dec 20	Dr I G Berry I Dr Banga	Recovery		I nour *	3 	Marked	Ì
y 2 Years	Jan. 2 1°5; Jan 17	In my own practice	Fatal,	Extension to bronch	hi 👊 hours	24 hours	Severe Well marked	
907 years 9 13 months.	Jan 20, Jan ^0		Recovery Fatal	Extension to bronc	3 days hiz	2 days	Severe	1 :
2 years.	Jan 27,	1		Extension of mem	b 3	3	Absent	In larynx
35 Sears.	Feb 4	Drs Mitchell & Gat	Kecovery		3	1	1_	1
42 years.	Feb 7 Feb 22	Dr Quine Dr McDonald	Fatal	Broncho-pneumon Diphtherit toxæm	12 26 hours 12 1 days	_8 hours 4 days	Severe	In pharynx "
3 4 Lears	Feb 25	Dr Murdock	Recovery		4 .			1
ç−2 years y=2 vears.	Feb ^6 March 1,	Dr McDonald	Fatal	Exhaustion Extension of mem	24 hours b 2 days	24 hours 2 days		
21~ years.	Mar 19	Dr Burry			2	2 2	1.	
1003 years 1 1,12 years	April 13 April 19	Dr Leavitt.		Diphth-rit toxam	112 3	3	Very evere	•
023 years 1033 years.	April 50 May 10	In my own practice Dr Kauffman of Blue	•	Extension of mem	.b ∤2 3	3	Severe	1 '
		Island			1	3		
c33 Years	May 11 May 24	In my o on practice Dr Bert		}	3	3	ļ	
or 4 years.	June 7	Dr Leavitt Dr Marr	Recover: Fatal	Exhaustion	4	4 days		
leaf years	June 21 '	Dr Keeler	1	İ	20 hours	20 hours	Very severe	, ,
ı3 months درج در ۲۶ years.	July 14 July 14	Dr E M Hale Dr DeWolf of En	Recover	Exten ion of men		2 days		•
mi g mon ha	ير وليال	glewood			,2	2	1,	
11 6 years	Aug 8	Dr Le Barer	•	Bronchial invasion	n 12 hours	12 hours		In phar lar and b onch In pharynx and larynx
II45 years	Aug 11	Dr Steurnagle Dr Kewley		Bronchial invasio	n 2 days	2 days	Very severe	
II 3 years II62 years	Aug 22 Sept. 14	Dr Price Dr Burr	Recover Fatal	Extension of mer	nb 2	2 days	Severe	
11" 4 years 22 month:	Sept 16	Dr Kossakosski	!	Detachm t of mer	mb 2	2	Mild	
I C4 years	Sept. 24, Sept 21	Drs Jacobs & Steele Dr J G Berry	Recover	У	3		Absent	In lary na.
1 05 years. 214 years	Sept. 2 Oct. 2	Dr Smith Dr Holman	Fatal Recover	Exhaustion	4 2	4 days	Severe	In pharynx and larynx
im 2 month	S Oct 5	Dr Holman	Fatal	Extension of me	mb '3	3 days	}	
ist 2 Lests	Oct. 7 Oc 10	Dr Dyas Dr McCarthy	Recove	יי די	4	1	Absent	In larynx
I 7 years.	Oct 21	Dr McCarthy Dr Cook	Fatal.	Exhaustion Detachm t of m		s 36 hours	Absent	In pharynx and larynx In larynx.
2 51 3 ar	1	1		brane below to	ube 4 days	4 days	Mild	In pharynx and larynx
1 4 years.	Oct 2	Dr J G Berry	-	Exhaustion Extension of me	mb 3	14	Severe	1
1 ,41 year 130 years.	S 101 2	Dr Casely 'Dr Nelson	Recove	Exhaustion Capillary bronch	1tis 6		Very severe ft Mild	•
		Treason	fr cro	up Capmary bronze		of tub		
ist 2 years.	Nov 24	Dr Church	Fatal	Extension of me	mb 36 hou	rs 36 hour:	Severe	
In I year I at years	Dec. 4	Dr Dahlburg Drs Saundersar	id Recove	Bronchial invasi	on, o days	6 days	Well marke	In phar lar and trachen
1 ₂₋₂ 3e2	1_	Mannheimer	i	į.		2 days	Severe	In phary nx and larynx
1 To Year	1	Drs Steele and Ba cock Dr Merkle	ratat.	Extension of me	1		Very severe	
1557 years	Dec 2	Dr Merkle Dr Riley	İ	Diphtherit toxa	emia 2	2 2	Malignant	In phar lar and nares
i. 3 years	Dec 20	Dr Thomas		Extension of me	emb 2	2 3	Severe	In pharynx and larynx
,2 3ca.s	1,	Drs. Gatchell & M	•			Ι.	1	ed l
140 to 3 ear	S Dec . T	'Dr Ctroe-er Dr Shy'es		Capillary bronch	nins 24 not emia _i 24	24	Malignant.	
41 5 7 ears	lan. r	1. 3 Dr Jacques Dr Boas	i	Extension of m Exhaustion	emb 3 day	5 3 days	Malignant	_ }
4 3 Zezr	S. Jan la	Dr D etrich	Recov		,3 ,3	Ī	Well marke with pertus	
144 4 Zear	Feb 9	Dr Quine	Fatal	Uræmia	3	3 day	 Severe follo) A
24 4 year	Feb 16	Dr Parsons.	Fatal	1	o6 hou	rs Johou	ing scarlati Malignant	1
4-2 yez. 14 5 jezi	S. Feb. v.	Dr Roberts Lemo	nt Recov	ery '	3 day		Absent	In lary ux. ed.,In pharyux and lary ux.
=-	Feb 27	D- Kauffman Drs Rea & Roler	Fatal	Obstruct on be		3		
ita s seat			Reco	tube.	ا ،		Severe	
1, 161	March	Whitman & Holma	n Fatal		emb z4 ho.	rs 24 hou	1,2	

Pa tent ejected the tube with a piece of membrane which did not re-form and recovery quickly followed

SUMMARY OF THE PRECEDING TABLE

Total number of cases, 150

Recoveries, 41

Percentage of recoveries, 27 33

Average age of all cases, 3 years, 11 months and 3 days Average age of those recovering, 4 years, 3 mos and 24 days Average age of fatal cases, 3 years, 8 mos and 7 days

Since the above report the writer has had 9 cases with 3 recoveries, making a total of 159 cases with

44 recoveries, or 27 67 per cent

will take an unlimited amount of fluid without difficulty, which they can not do with the open tube without the most violent coughing. With infants the difference is not noticeable in all cases, many however will swallow without any difficulty whatever

In giving liquids it is better to give them from a

spoon with the head inclined forwards

It would naturally be inferred that this metal epiglottis projecting upwards and lying against the true epiglottis would cause greater irritation and more coughing than the open tube, but I have not observed this to be true. The following cases, only two out of many equally happy in termination, illustrate the

advantages of this device

March 2, 1888, I was called by Dr B D Foster to perform intubation upon a little girl 5½ years old She had been suffering from diphtheria for several days, when the larynx became involved Both tonsils and uvula were covered with diphtheritic membrane, the urine was loaded with albumen, and the dyspnœa from laryngeal obstruction was intense The loud stridor of croup was heard all over the house and the case seemed as hopeless as could have been well selected A tube with the metal epiglottis was introduced giving prompt and entire relief to the difficult breathing The child revived and took liquid It was a nourishment without the least difficulty great comfort to be able to give this patient an abundance of water Milk and brandy were taken freely, without which I am confident recovery would not have resulted, as the child was greatly prostrated The case progressed favorably, although the urine continued to be loaded with albumen Forty eight hours after the operation she ejected the tube, together with a membranous cast The patient improved somewhat and the respiration remained comfortable without the tube for three days, although on the second day she was taken suddenly with a choking spell and the parents thought she was about to After struggling for a few moments she ejected die a large piece of false membrane, which gave her relief The third day after the rejection of the tube the gradual return of the dyspnœa, due to reformation of membrane, necessitated its reintroduction dyspnœa at this time had become almost as intense as when the operation was first performed The child again revived, and continued to improve for three days when the tube was removed The albuminuma gradually disappeared and the patient made a perfect

April 13, 1888, I was again called by Dr Foster, again introduced and worn with the same common to operate upon a boy 3½ years old. The patient one night when it was again expelled with a small

had been sick about one week with diphtheria of a mild type when the larynx became invaded and the usual symptoms of croup followed At the time of the operation the symptoms were urgent The pulse was rapid, the respiration rasping with the stridor heard both on inspiration and expiration There was sinking in of the walls of the chest with every inspir ation, and the patient was bathed in perspiration As my two smallest tubes in the set were in use I was obliged to introduce a tube suitable for a much older child The tube with a metal epiglottis was employed and the urgent symptoms were entirely relieved On account of the large size of the tube fluids could not be taken without some coughing, but solids and semisolids were swallowed without difficulty One thirty second of a grain of bichloride of mercury was given hourly, well diluted, and a steam atomizer constantly employed The child did remarkably well for two days, when there was partial detachment of mem brane below the tube and the respiration suddenly be came greatly embarrassed I was hastily summoned but found the child again breathing comfortably There was, however, a peculiar, loose, hoarse cough, indicating false membrane below the tube Fearing sudden suffocation, from detachment of a large mass of false membrane, the tube was removed, when the child, after coughing and strangling for a moment, expelled a large membranous cast of the trachea As the respiration seemed comfortable without the tube Twelve hours later it was not at once reintroduced however the membrane reformed and returning dysp nœa again rendered it necessary A smaller tube was introduced and the patient instantly relieved With this tube he was able to take liquids without the least difficulty, which rendered it possible to continue The comfort of the child was with the medicine perfect for twelve hours, when the tube was ejected Urgent dyspnæa with a small piece of membrane did not return for several hours, but finally, however, it became necessary to again introduce the tube, and when this was done the respiration ceased, the pa tient became blue and it was necessary to at once The trouble was obvious, mem remove the tube brane had been crowded down below the tube As the tube was removed another membranous cast was The simple introduction and removal of the tube was sufficient to detach the membrane and The patient now to relieve the urgent dyspnœa passed twelve hours without the tube very comfor tably, when it again became necessary to introduce It was retained for twenty four hours, during which time he took an abundance of nourishment Indeed it was and water without any annoyance observed that he took more nourishment and with less difficulty with the tube than without it The tube finally was expelled, together with another piece of membrane that had become detached below it The patient now passed eighteen hours without the tube While the respiration was more or less embarrassed during this time, yet it was hardly sufficient to call for interference until the expiration of this time, The tube was when dangerous dyspnæa returned again introduced and worn with the same comfort for

The cough now became loose patch of membrane and considerable membrane was expectorated in small pieces and in the form of muco pus dyspnœa did not return and the boy made an excellent recovery

I have just received a letter from Dr O'Dwyer, in

which he says

"I received the tubes with artificial epiglottis which I have used in one case at the asylum and the result as far as swallowing was concerned, was most satisfac-In fact I never saw a child with the ordinary, unprotected tube swallow anything like as well The old nurses, who are so thoroughly familiar with this subject, uniformly agreed upon this point There is no doubt but that this artificial epiglottis will be an immense improvement in the operation"

The metal epiglottis which renders it possible for patients to swallow liquids will, I am convinced, increase the popularity of the operation and enable us

to save a larger proportion of patients

70 Monroe Street

THE INFANT-FOOD PROBLEM

Read in the Section on Diseases of Children at the Thirty Ainth Annual Meeting of the American Medical Association, May 10, 1888

BY WM B ATKINSON, A.M, MD,

FROFESSOR OF DISEASES OF CHILDREN AND SANITARY SCIENCE IN THE JEDICO CHIRURGICAL COLLEGE PHILADELPHIA

To the general practitioner everywhere, there constantly comes the question, What means shall be employed to prevent the terrible mortality among infants deprived of their natural food, the mother's breast milk? As it is in very many cases impossible to place the child outside the walls of a large city, this want of proper hygienic surroundings acts as one great factor in the production of disease But perhaps the most active cause of disease is the exhaustion of the vital powers from the want of those articles which, being properly and readily assimilated, aid to maintain the body in its highest and healthiest con-We all know that, other things being equal, that child which has been able to keep its system in the best state, its blood rich and pure, its muscles plump and firm, is sure to pass through an epidemic of children's affections either entirely unscathed or suffering only from a slight attack, readily throwing off the disease and never being troubled with the sequelæ

Defective nutrition, then, is the predominant factor in the causation of the fearful mortality everywhere observed among children We need only point to the statistics of children's hospitals, foundling asylums and similar institutions to show the truth of this

proposition

To us, as physicians and sanitarians, as citizens earnest for the welfare of this great Republic, this comes with powerful import An additional fact also appeals to us when we learn that the vast majority of these are offspring of the native born, while those who survive are largely the children of foreigners This is shown by the valuable statistics of such in-

compelled to admit that other causes, and one a very potent factor, produce the great disproportion between offspring of natives and foreigners, yet it must be admitted that the truth of our original proposition still is evident, that defective vitality causes a vast majority of deaths among infants, and even in children of larger growth

The latter fact is constantly shown by the great mortality which prevails when, by reason of short crops or other causes, the people are unable to procure the food needed to maintain their systems up to

par and thus resist the inroads of disease

It goes without saying that the infant should be raised on its mother's milk whenever possible When, for any cause, this fails, then comes the question, what shall be the substitute? Abroad the milk of asses and goats is in quite common use Cow's milk, being that most easily obtained, is most largely employed in this country This being the fact, we next come to the consideration as to how the two kinds of milk differ, and what is needed in order to cause that of the cow most nearly to approach that of the human

Cow's milk contains more proteid matter, more fat, more mineral matter and less sugar, and as a rule, in health human milk is alkaline, while cow's milk is One special difficulty with cow's often slightly acid milk is that its casein is more or less likely to form an insoluble mass by contact with the gastric juice, while the casein of human milk is in part a peptone, and forms a very delicate coagulum when in contact

with the gastric juice

The effort is always to produce a food for infants closely resembling in its composition the mother's milk, and the nearer this is reached in all its details, the more surely will such food prove wholesome and valuable to the infant

Our idea of a standard infant food, then, would be produced as follows Be sure to obtain the milk of a healthy cow Just here we may premise that we do not believe in the common fallacy, "one cow's The mixture of the milk of several healthy cows is more sure to give an article of real value Undoubtedly, many in this audience can substantiate the claim that it is most usually the pet cow, from which is obtained the milk which is put up for the sick baby, that receives all the banging, hurrying and pelting and, as we all know, is thus likely to yield a milk which may actually be poisonous in its nature The best combination would be pure milk diluted with sufficient pure water to reduce the relative proportion of albuminoids and mineral constituents most nearly to that of human milk, then partially peptonize or digest it, and finally add a soluble carbo-hydrate with sufficient alkali to produce as close a resemblance to breast milk as may be We must not forget that peptonizing milk does not relieve us of the need of being sure that the milk is at the outset pure and fresh.

The milk supply of large cities has now become one of the great problems of the day Churned in the cars to the city, then more thoroughly churned in the wagons over the wretchedly paved streets, dis-Vestigators as Dr Nathan Allen Though we are tributed in many cases from doubtful cans by persons

of much more doubtful appearance as to their own cleanliness, the flavor often aided by the puffing of a cigar or filthy pipe on the part of the distributor, the article is received in many cases in a receptacle of equal doubt as to cleanliness, it is placed, perhaps, in a food chest or so called refrigerator, exposed to the atmospheric contact of other articles of food Is it to be wondered at that the milk becomes of a very doubtful form as to its propriety as an infant aliment?

the new plan of delivering what is called "whole milk " The milk is very carefully placed in glass jars immediately after being drawn from the cow, these, being quite full, are hermetically sealed so that there can be no opportunity of churning or adulteration, or the absorption of odors or disease germs children who have passed the age of infancy, I have fermentation, acidity, diarrhea and the usual train of long been in the habit of urging the employment, particularly during hot weather, of what is called "evaporated milk" Its claims were that it was the Its claims were that it was the milk from healthy, well-fed cows and, being of a density greater than cream, churning and souring were less likely to occur during its transition to the Again, it was very much less ready to absorb or appropriate the odors, etc, to which it might be subjected I have found this more easily borne by the child, and repeatedly I have been compelled to substitute it for the "condensed milk," where a certain proportion of sugar is added in order to preserve be pure and fresh the article

For these reasons, Prof Vaughan urges the use of rise to the suspicion that they are already assuming dried milk solids, that is, they can be transported without injury from any distance and, if properly prepared, may be kept without putrefaction occurring Now, if such pure milk from perfectly healthy cows were partially predigested by the process of peptonization with fresh pancreatine, the temperature sufficiently raised to destroy the ferment, then reduced to a powder by evaporation, and to this dextrine added, thus supplying the carbohydrate, we would then come as near the production of a proper food for infants as might be possible in the absence of the breast-milk

By recent researches, we have been taught that dextrine is the best form of carbohydrate, as it is non-fermentable and does not irritate the stomach of the infant, is easily assimilated and, unlike cane sugar or maltose, is not likely to take on acid fermentation Roasted wheat flour has long been employed and recommended as an article of food for infants, and particularly where diarrhœa is present The reason of this is because this process converts the starch of the flour into dextrine

The malt sugar or so called "Liebig foods" are no doubt often valuable, particularly in infantile constipation, for their laxative effects, but are extremely liable to continue a diarrhœa or increase it these are used for their laxative effect, it is safer to in each instance why this should be done Just here use them alone rather than with milk, lest their fer- it is equally important to see that the water is not mentative tendency be aggravated by the presence of too great a quantity of albuminoid matter

that the "Liebig foods" do not of themselves meet remark by the remembrance of an inspection just the requirements demanded for infantile nutrition, made for the State Board of Health of Pennsylvania.

unless with the addition of cow's milk amination of the analyses of such mixtures, we find that they add no essential to cow's milk, nor do these foods act chemically upon the casein, nor physically by reason of their solubility, and, as I have before remarked, they may give rise to disorders of diges tion in consequence of the readiness with which they take on fermentation

Farinaceous foods are of course out of the question, because of the absence of ptyalin in the secretion of To a certain extent, these objections are met by the salivary glands in the earlier years of infancy The addition of starchy matters to cow's milk with the purpose of rendering the coagulum less dense and more easily broken up in the stomach, as has been recommended by some authorities, is wrong in prin ciple, it really adds an indigestible element, which cannot fail to act as a foreign body sure to produce

> The milk foods, when diluted with water in accord ance with directions, should correspond in nutritive value with human milk Now, that this correspondence should be more nearly perfect, they should also be partially predigested or peptonized, in order that the casein may be rendered more acceptable. It is also necessary that sugar in some form should be added

In peptonizing milk, it is of the greatest importance that the pancreatic extract which is employed should The odor of some digestive fer ments as furnished by the stores is such as to give the putrefactive tendency In fact, it is a very difficult matter to preserve them, as it is well known that the products of the pancreas are much more readily decomposed than any known animal substance Hence the greatest care will be necessary that there shall not be the slightest possibility of the presence of putrefactive germs in any of these articles that may be employed to aid in the preparation of the diet of infants The peptonizing of milk, although apparently a very simple matter as practiced in the laboratory, yet is scarcely feasible in the household

Another point is of great importance is eminently prone to absorb moisture, and hence it should not be combined with dried milk and then put in bottles or other form of package for family use, because, as these packages are only partially used at one time, the balance is extremely liable to absorb moisture, resulting in fermentation, and this is more especially the case in hot weather or when kept in a hot room

We cannot too strongly urge upon all who are compelled to prepare food for infants the great, the imperative necessity of using only water that has To the medical man, the reason is been boiled plain, yet it would not be amiss for him to explain cooled by the addition of ice, as we may thus return too great a quantity of albuminoid matter

I am incited to this remark by the remembrance boiling was intended to expel I am impelled to this

The subject of complaint was the ponds from which ! the ice was obtained to supply the demands of a large stream really nothing but a drain for a full graveyard, one or more slaughter houses, a large number of cesspools which were in constant use, and a large area of swamp land

In diluting any form of infant food we should give positive, definite quantities Undoubtedly all of us have encountered many instances where the child was really starving, while apparently receiving a large quantity of fluid been carried too far

It is unnecessary for me to occupy your time with further points as to times for feeding, nor of necessity for using bottles, etc

Before closing, I may remark that, in my investigation of foods for the preparation of a paper which may be read elsewhere, I received from my friend Chief Medical Purveyor Baxter, of the United States Army, a tabulated analysis of some fifteen forms of foods Of these, only four contained more than 10 per cent of nutritive material, thus showing that even here we are likely to be deceived, and to be employ ing an article as useless for its proposed purpose as the too largely diluted food of the infant already mentioned

In conclusion permit me to say that it has long been my custom, not only in my practice, but also in my teachings, to urge the giving of less medicine, using it only when imperatively demanded, and to insist upon the value of proper hygiene and proper nourishment, believing that these alone, in many cases, will at once place the child on the road to health, and if persevered in will, as a rule, maintain it there

GASTROTOMY FOR REMOVAL OF FORK BY MAX E WITTE, MD, OF JT PLRASANT IOWA

Mrs H W, et 31, married, native of Ohio, was admitted to the Iowa Hospital for the Insane at Mt Pleasant, July 3, 1885, suffering with acute mania The first symptoms of disease were manifested June 20 1885, by wild and irrational language and actions

Since her admission to the Hospital, the maniacal condition has been continuous, and subject to little variation Her habits have been irregular and disorderly, and at periods she has been decidedly excited and violent

During the months of October and Nevember, 1887, she had paroxysms of more than usual mental disturbance, during which it was evident that she suffered much pain, would cry out as if in great distress, walk about cramped, and bent forward and to the left Her mental confusion was so great, however, that no satisfactory information regarding this distress could be obtained from her

In the early part of December a tumor was detected in the abdominal cavity, to the left of the um-

ing torture, which was fast exhausting her strength By the middle of the month, the patient had become These ponds were filled with water from a much emaciated and weakened, and was in a truly marasmic condition The tumor could be plainly felt through abdominal walls, and was apparently the Its exact character could not be size of an orange detected

> December 16, pain was even more severe than usual, and a hard pointed body could be felt connected with the tumor, and involving the abdominal The diagnosis was made of a foreign body The fact is that the dilution had within the alimentary canal, and perforation of the intestinal walls

Operation was at once determined upon, since the The writer op patient's life was in imminent peril erated with the efficient assistance of Dr P F Straub, of the Hospital Staff, making an incision three inches long, parallel to the curve of the costal cartilage, on that side, and directly over the foreign The four prongs of a large table-fork were found projecting through the anterior walls of the stomach near the greater curvature, which had been dragged downward and to the left The stomach was opened and the fork liberated and removed After thorough exploration of the stomach, and cleansing the edges of gastric opening, they were sutured to abdominal wound by means of deep This method was chosen since there were some adhesions of stomach to abdominal walls other set of more superficial sutures was then introduced to approximate the walls still more closely Iron dyed silk and strongly curved needles were employed, and during the operation and subsequent dressings strict antiseptic precautions were observed Patient rallied well from the effects of the operation Her temperature at no time was above 100° F, nor her pulse over 86 She was free from pain, and slept well with chloral hydrate gr xxx given nightly by

A little ice was put in her mouth occasionally, but during a period of twelve days following the operation, food by mouth was entirely withheld fed by nutrient enemata, consisting of beef peptonoids, pancreatic emulsions of milk and defibrinated

After this period concentrated and nutritious food was given by mouth, and without causing any trouble The healing of the operation wound was somewhat retarded by her having during the fourth night, eluded the vigilance of the nurse and turned in bed, thereby partially separating the edges of the wound accident was repaired by the freshening of the wound and the introduction of more sutures

The wound healed throughout the greater extent by first intention, and without resulting fistula. Patient rapidly regained flesh and strength, and is now Digestion is good, and she in usual physical health has no pain or tenderness anywhere about abdomen

The fork is seven and one-half inches long, one inch wide across the prongs, is heavy, four pronged, and spoon handled It is heavily plated with silver, but blackened by action of the gastric juice, where bilicus and in a horizontal plane with it. It became the plating had been chipped off. The fork was daily more painful and caused the patient excruciation missed September 13, 1887, and patient at that time,

and subsequently, stated that she had swallowed it, but the idea seemed so absurd that no credence was given to her story During more than three months, from September 13 to December 16, 1887, the fork had been in her stomach

A CASE OF ACUTE RHEUMATISM IN AN INFANT ELEVEN DAYS OLD

BY ALEX GUTHRIE, MD,

OF CAIRO, ILL

Inasmuch as this case in its etiological bearings is somewhat unique, I will give a moderately full report

of the lying-in period of the mother

Lilha K, æt 18, primapara, was delivered of a healthy male child on March 11, 1888 On the 14th she was attacked with severe pain in the umbilical region, followed by a light chill and high fever Was very restless all night and sent for medical aid the next afternoon When I arrived the pain was moderately severe and paroxysmal, there was marked tenderness over upper two-thirds of abdomen, but very little over lower third Temperature 102 1/2° Tongue furred Breath offensive One stool yester-Lochia normal. day

Hydrarg chlorid mite gr 6 Morph sulph gr 3/3
my Chart No 3
One every two hours, to be followed in four hours by 1 oz

castor oil and gtt x oil of turpentine, also hot fomentations to

This produced free catharsis and great relief

On the evening of the 17th, I was again called, and found her suffering from acute rheumatism, involving both shoulders, left wrist and both knee-Abdominal tenderness had disappeared Lochia normal R Sodii salicylat gr x, every two Also, quin sulphat gr v, every four hours, and puly specae comp prore nata Under this treatment she speedily obtained relief and was soon convalescent.

This much by way of its possible etiological bear-

ings on her infant's attack

During the night of March 21st, and all day on the 22d, her babe was restless, slightly feverish, and cried whenever it was handled I supposed it to be colicky, and ordered a dose of castor oil, to be followed by gtt iv doses of tinct opii camphorat as occasion required Next morning the mother called my attention to its left wrist, which was much swollen, slightly red, and on the lightest handling or flexing of the joint the child would cry as if in pain R Salicylate sodium gr ss every three hours, and inflamed joint to be wrapped up in a woolen cloth wrung out of a warm solution of bicarbonate of soda

March 24 —Swelling has somewhat subsided in left wrist, but right knee and upper part of leg are swol-

To continue treatment len this A M

Salicylate sodium 25th -Condition unchanged is inefficient, and seems also to disagree with it be omitted

Sodæ, bicarb .

Э)

Potas acetat Aquæmenth pip S-31 every two hours, and continue camph tinct opium as occasion requires

27th —Swelling has almost disappeared from knee

and leg, but wrist is still puffy

28th —Both wrists and hands are swollen this A v Child seems bright and moderately well nourished, and only suffers on handling the swollen joints To continue treatment

30th—This AM the swelling has almost disap peared from the right wrist, and is much less at the left wrist-joint

April 2d —Has so far recovered that further visits

are deemed unnecessary

The hygienic surroundings were as unfavorable as possible The house in which the mother was con fined was cold and open, and the weather was cold and damp, her arrangements for fire were poor, as were also her food and attention In addition to this, rheumatism was prevalent in the city These facts, when taken together with the sudden appearance of the disease, the swollen, tender and painful joints, its migratory character, its yielding to alkalies, and the absence, so far as I could determine, of a syphilitic taint in the mother, seem to me to stamp the disease as acute rheumatism, notwithstanding the tender age of the infant

Longstreth (On Rheumatism, Gout, and some Allied Disorders, page 22) says "Only one case has been recorded under the age of one month " Henoch (Lectures on the Diseases of Children Wm Wood Page 311) reports a case at the age 1882 of ten months, which was also followed by hardress and contracture of the adductors of the thigh Widerhofer observed the disease in a baby twentythree days old, in the Foundling Hospital at Vienna -the only case of the kind that occurred among 70,000 children in eight years Stager met with it in a baby four weeks old (See Ziemssen's Cyclopedia, Vol XVI, pages 17 and 18)

May 15, 1888

MEDICAL PROGRESS.

EXPERIMENTAL INTESTINAL SURGERY -At the conclusion of his very able paper, "An Experimental Contribution to Intestinal Surgery with Special Reference to the Treatment of Intestinal Obstruction, read at the Ninth International Medical Congress, DR N SENN draws the following conclusions

Traumatic stenosis from partial enterectomy and longitudinal suturing of the wound becomes a source of danger from obstruction or perforation in all cases where the lumen of the bowel is reduced

more than one half in size

2 Longitudinal suturing of wounds on the mesenteric side of the intestine should never be prac ticed, as such a procedure is invariably followed by gangrene and perforation by intercepting the vascular supply to the portion of bowel which corresponds to the mesentenc defect

3 The immediate cause of gangrene in circular

constriction of a loop of intestine is due to obstruction of the venous circulation, and take places first in the majority of cases at a point most remote from the cause of the obstruction

- 4 On the convex surface of the bowel a defect an inch in width, from injury or operation, can be closed by transverse suturing without causing obstruction In such cases the stenosis is subsequently corrected by a compensating bulging, or dilatation of the mesenteric side of the bowel
- 5 Closing a wound of such dimensions on the excluded portion of the intestinal canal mesenteric side of the bowel by transverse suturing may give rise to intestinal obstruction by flexion, and to gangrene and perforation by seriously impairing the arternal supply to, and venous return from, the portion of bowel corresponding with the mesenteric
- 6 Flexion caused by inflammatory and other extrinsic causes gives rise to intestinal obstruction only in case the functional capacity of the flexed portion of the bowel has been impaired or suspended by the causes which have produced the flexion, or, by subse quent pathological conditions which have occurred independently of the flexion
- 7 As in flexion, a volvulus gives rise to symptoms of obstruction when the causes which have given rise to a rotation upon its axis of a loop of bowel, have at the same time produced an impairment or suspension of peristalsis in the portion of bowel which constitutes the volvulus, or when a diminution or suspension of peristalsis follows in consequence of the degree or extent of the rotation
- 8 Accumulation of intestinal contents above the seat of invagination is one of the most important factors which prevents spontaneous reduction, and which determines gangrene of the intussusceptum and perforation of the bowel
- 9 Spontaneous disinvagination is not more frequent in ascending than descending invagination
- 10 The immediate or direct cause of gangrene of the intussusceptum is obstruction to the return of venous blood by constriction at the neck of the in-
- II Ileo cæcal invagination, when recent, can fre quently be reduced by distention of the colon and rectum with water, but this method of reduction must be practiced with the greatest caution and gentleness, as over-distention of the colon and rectum is productive of multiple longitudinal lacerations of the peritoneal coat, an accident which is followed by the gravest consequences
- The competency of the ileo cæcal valve can only be overcome by over distention of the crecum, and is effected by a mechanical separation of the margins of the valve, consequently it is imprudent to attempt the treatment of intestinal obstruction beyond the ileo caecal region by injections per rectum
- 13 Resection of more than six feet of the small intestine in dogs is uniformly fatal, the cause of death in such cases is always attributable to the immediate ileum into the colon or rectum effects of the trauma
- tion, absorption and nutrition, and often results in of irreducible ileo cæcal invagination, where the death from marasmus

- 15 In cases of extensive intestinal resection the remaining portion of the intestinal tract undergoes compensatory hypertrophy which macroscopically is apparent by thickening of the intestinal coats and increased vascularization
- 16 Physiological exclusion of an extensive portion of the intestinal tract does not impair digestion, absorption and nutrition as seriously as the removal of a similar portion by resection
- 17 Fæcal accumulation does not take place in the
- 18 The excluded portion of the bowel undergoes progressive atrophy
- 10 A modification of Jobert's invagination suture by lining the intussusceptum with a thin flexible rubber ring, and the substitution of catgut for silk sutures is preferable to circular enterorrhaphy by the Czerny Lembert suture
- 20 The line of suturing, or neck of intussuscipiens, should be covered by a flap or graft of omentum in all cases of circular resection, as this procedure furnishes an additional protection against perforation
- 21 In circular enterorrhaphy the continuity of the peritoneal surface of the ends of the bowel to be united should be procured where the mesentery is detached by uniting the peritoneum with a fine catgut suture before the bowel is sutured, as this modification of the ordinary method furnishes a better security against perforation on the mesenteric side
- 22 In cases of complete division of an intestine, if it is deemed advisable not to resort to circular enterorrhaphy, one or both ends of the bowel should be closed by invagination to the depth of an inch, and three stitches of the continued suture embracing only the peritoneal and muscular coats
- 23 The formation of a fistulous communication between the bowel above and below the seat of the obstruction should take the place of resection and circular enterorrhaphy in all cases where it is impossible or impracticable to remove the cause of obstruction, or, where after excision it would be impossible to restore the continuity of the intestinal canal by suturing, or where the pathological conditions which gave rise to the obstruction do not constitute an intrinsic source of danger
- 24 The formation of an artificial anus in the treatment of intestinal obstruction should only be practiced in cases where continuity of the intestinal canal cannot be restored by making an intestinal anastomosis
- 25 Gastro-enterostomy, jejuno ileostomy and ileoileostomy should always be made by lateral apposition with partially or completely decalcified perforated bone plates
- 26 In making an intestinal anastomosis for obstruction in the cæcum or colon, the communication above and below the seat of obstruction can be established by lateral apposition with perforated approximation plates, or by lateral implantation of the
- 27 An ileo colostomy, or ileo rectostomy by ap-14 Resection of more than four feet of the small proximation with decalcified, perforated bone plates, intestine in dogs is incompatible with normal diges- or by lateral implantation should be done in all cases

local signs do not indicate the existence of gangrene cooled down, in order to watch the effect on the

28 In all cases of impending gangrene or perforation, the invaginated portion should be excised, both ends of the bowel permanently closed, and the continuity of the intestinal canal restored by making an ileo-colostomy or ileo-rectostomy

29 The restoration of the continuity of the intestinal canal by perforated approximation plates, or by lateral implantation, should be resorted to in all cases where circular enterorrhaphy is impossible on account of the difference in size of the lumina of the two ends of the bowel

30 In cases of multiple gunshot wounds of the intestines involving the lateral or convex side of the bowel, the formation of intestinal anastomosis by perforated decalcified bone plates should be preferred to suturing, as this procedure is equally, if not more, safe, and requires less time

31 Definitive healing of the intestinal wound is only initiated after the formation of a network of new vessels in the product of tissue proliferation years from the approximated arrows surfaces.

from the approximated serous surfaces

32 Under favorable circumstances quite firm adhesions are found within the peritoneal surfaces in six to twelve hours which effectually resist the pressure from within outward

33 Scarification of the peritoneum at the seat of coaptation hastens the formation of adhesions and the definitive healing of the intestinal wound

3.4 Omental grafts, from one to two inches in width, and sufficiently long to completely encircle the bowel, retain their vitality, become firmly adherent in from twelve to eighteen hours, and are freely supplied with blood-vessels in from eighteen to forty-eight hours

Unitary Diseases, June, 1888

METHOD OF ESTIMATING ADDUCTION AND ABDUCTION OF THE LEG IN HIP DISEASE—LOVETT'S method consists in calculating mathematically the angle of deflection The legs of the patient being placed in

35 Omental transplantation, or omental grafting, should be done in every circular resection, or suturing of large wounds of the stomach or intestines, as this procedure favors healing of the visceral wound, and affords an additional protection against perforation—Annals of Surgery, June, 1888

COLD-BATH TREATMENT OF TYPHOID FEVER —M GLENARD declares that whenever the cold-bath treatment has been employed in typhoid fever by the fourth day, the malady has had a favorable course His plan consists in giving, every three hours, night and day, whenever the temperature exceeds 39° C, a bath lasting twenty minutes, at a temperature of Advanced age, epilepsy, and from 18° to 20° C valvular affections of the heart, inter alia, are contra-The cold acts as a stimulant to the indications circulation and lowers the temperature It tends to prevent complications due to hypostasis and hyperpyrexia, and it assists in maintaining the tone and functions of organs not already damaged The cold baths never gave rise to bronchitis, pneumonia, or other complications, but if the application of the method be postponed until after the first week they may, of course, be already present, but in such case the gravity and importance will be less than they would be with any other treatment In complicated cases it is best to begin with baths at 32° C, gradually

cooled down, in order to watch the effect on the brain and heart Baths should not be given oftener than every three hours, and they should be associated with the administration of stimulants If necessary, gentle friction may be employed during and after the bath —London Med Recorder, May 21, 1888

MALIGNANT TUMORS OF THE PROSTATE—Neo plasms are in 90 per cent primitive. In 10 per cent they affect children from the age of 1 to 10

Carcinoma furnishes 86 per cent

Sarcoma is exceptional

The connections of the gland and its abundance of lymphatics explains the almost constant and rapid spread (diffuse prostato-pelvic carcinoma)

Implication of the bladder is exceptional

The predominant symptoms are functional disturb ances of the urinary apparatus

Hæmaturia is often absent

The younger the subject, the more rapid the course The evolution varies from three months to five years

The exploration of the pelvic cavity and the existence of radiating pains form the best basis for di

agnosis

The gravity of prognosis and the severity of some symptoms warrant operative interference, but, on the other hand, removal of the tumor is useless, on account of the rapidity of diffusion —Dr Engelbach, Thèse de Paris, 1888, Jour of Cutan and Gento Uninary Diseases, June, 1888

METHOD OF ESTIMATING ADDUCTION AND ABDUC consists in calculating mathematically the angle of The legs of the patient being placed in deflection a straight line with the body, if one leg be fixed in adduction or abduction there will be lateral tilting of Real shortening can be measured from the pelvis the anterior superior spine to the malleolus, practi cal shortening from the umbilicus to a malleolus of The line between the anterior superior each ankle spines will form two angles with the position it would occupy naturally by crosing the latter line diagon Either one of these two angles represents the angle of deflection of the leg on the diseased side To estimate this angle in degrees Dr Lovett has It will be seen that if the prac constructed a table tical shortening is greater than the real shortening the diseased leg is adducted, if less than the real short ening, it is abducted -London Med Recorder, Maj 21, 1888

Hypodermic Injections in Malarial Attacks—Dr Loysel recommends the following formula for hypodermic injection in malarial attacks—Liq ar senicalis, M, 50, quiniæ sulph, 3ss, and tartaric q >, aqua destillata, M, 160—Injection for leucorrhæ2—Potassium chloratis, 200 grs, vin opii, 5iij, aqua picis (tar water), 3viij—London Med Recorder, Maj 21, 1888

THE

Journal of the American Medical Association Published Weekly

The Editor of this Jourgal would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or containing items of information should be accompanied by the writer's full tame and address, although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor

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VERNONIN, A NEW CARDIAC POISON

MM EDOUARD HECKEL and F SCHLAGDENHAUF-FEN have recently communicated to the Académie des Sciences of Paris some facts in regard to vernonin, a new heart poison obtained from Vernonia nigritiana (known in Africa as Batiatior or Batjentjor), the root of which is used on the west coast of Africa as a febrifuge As yet it has been impossible to obtain an alkaloid from the plant, but the alcoholic extract of the resin contains the glucoside vernonin, a white powder, slightly hygroscopic, the solution of which is pale yellow It is only slightly soluble in ether and chloroform The solutions, when evaporated, leave a colorless deposit of resinous appearance, which strikes a brown color with sulphuric acid, this color passing to a violet purple, and persisting for several hours

According to Heckel and Schlagdenhauffen, when a few centigrams of the aqueous solution of the alcoholic extract are injected under the skin of the frog (in the thigh) paralysis of the limb soon supervenes When the dose is large enough the heart soon ceases to beat, as after an injection of digitalis, convallaria, or strophanthus, and other vegetable cardiac poisons A dose of gram o oz caused some cardiac trouble in the frog, but they soon disappear With a dose of gram o 04 there was at first a slight diminution in the amplitude of the cardiac movements, then, after about five minutes, the beats were twenty four instead of thirty three to the minute In a short time the needle of the cardiograph dragged, and showed only two or three movements a minute At intervals the arrests were interrupted by distension of the point of the in need of a new fad

heart from auricular action In about forty minutes the heart was completely arrested, the needle tracing a straight line With a dose of gram 0 09 the same phenomena were observed, and the animal died in about three hours

749

Experiments on pigeons showed that gram o 15 killed the birds in about fifteen hours The autopsy shows the heart arrested in systole Gram o 25 kills a pigeon in about twelve hours

The experimenters conclude that vernonin is very similar in its action to digitaline, but that its toxicity is twenty five times less marked than that of digital ine Contrary to what has been supposed, the root of the plant does not contain emetine

EXIT-THE FAITH CURE

Under the title "Christian Science Manslaughter" an item from Malden, Mass, of May 26, states that Judge Pettingill found a Mrs Abbie H Corner, a "Christian Scientist," guilty of manslaughter in causing the death of her daughter, Mrs Lottie James, by neglecting to provide proper medical assistance at the time of her confinement on April 18 She was held in \$5,000 bail

The case of Mrs Mary M Reiter, of Chicago, a woman who clung to Christian Science until death, was investigated by a coroner's jury about ten days ago Mrs Reiter had been ill with consumption, under the care of Mrs John C Barker, at 715 Fullerton avenue, for the eight weeks preceding her death, with no other treatment than that of Christian Science, which consists principally in telling the patient that she is not sick at all, she only thinks so The jury recommended that the State's Attorney order an immediate investigation of the case, and not only that, but that all cases treated by Christian scientists, so called, be investigated

In California, a week or two ago, some "Salvation Army" people got into trouble by trying to "faithcure" a sick child, which died

And so it goes It is about three years since this new fad had its birth in the East, and by the assistance of the newspapers spread over this country. For the newspapers, nothing was too good to say of it. Now, that the easily foreseen result has occurred, the papers have discovered that all is not wisdom that cries aloud in the streets, and are as ready to publish derogatory items concerning the "faith cure" as they were at first hasty in flaunting its nonsense in the faces of sensible people. It will not be long before the now votaries of "Christian Science" will be an need of a new fad.

EDITORIAL NOTES

THE INFLUENCE OF TEREBINTHINATE TREATMENT on the richness of the blood in oxyhæmoglobin has been studied by M E BREMONT, Fils This treatment caused increase of weight and profound modifications in the state of the health, all other treatment With the assistance of Henocque, being suspended who made the hemotoscopic examinations, and of Dr Fernet, he has found that the quantity of oxyhæmoglobin was notably increased, while the duration of the reduction was lessened, the weight of the patient being increased The three patients examined were phthisical subjects, in one of these, after forty séances, the bacilli became more and more of a sporule form, and the elastic fibres disappeared, in another the bacilli, which were numerous at first, disappeared This is new evidence of the value of the terebinthinate treatment which, by making the medicine penetrate the skin, transforms the oxygen of the red globules into ozone, it is claimed, and increases its oxidating power without disturbing the digestive functions

THE OPERATIVE TREATMENT OF ECTOCARDIA has been successfully carried out by M LANNELONGUE The patient was a girl, æt 6 years, a congenital About the middle of the sternum was ectocardiac an ulceration about 2 cm in diameter, and closed at the bottom by a yellowish membrane in process of This membrane was raised by the mortification heart, and from its surface cardiac tracings could be In a few days this membrane disappeared, and the ventricular wall engaged at the orifice cardiac apex was in front of and below the opening M Lannelongue made two laterally movable skin flaps, brought them together, and obtained union by The movements of the heart second intention were sufficient to prevent adhesions months cicatrization is solid, and the operation has practically transformed the ectocardia into subcutaneous cardiac ectopia

A NEW NORWEGIAN JOURNAL -We have received Nos I to 10, Vol I, of Tidsskrift for praktisk Medicin, a bi monthly journal published at Christiania under the editorship of DR V UCHER-It is neatly printed, on good paper, and the numbers received contain several interesting articles, among others one by Prof Voss recording a large number of deformities occurring in his private practice

Monthly, of May, DR LEWIS G PEDIGO reports a May 27

case of atropia poisoning, due to the administration of half a grain of the sulphate by mistake Alcohol, strychnia, morphine, galvanism, and inhalation of nitrite of amyl, occasionally, tided the patient over the crisis, after which the reflex excitability was con trolled by bromide of potassium

THE ANATOMICAL BOARD OF GEORGIA, organized last summer, is doing good work, and the indications are that an abundance of anatomical material will be supplied to the colleges in the State The law provides that all bodies required to be buried at the public expense, except those claimed by relatives, shall be turned over to the Board

EPHEDRIN, A NEW MYDRIATIC - KINNOSULE MIURA has found that ephedrin, the active principle of ephedra vulgaris, isolated by Professor W N Nagai, causes mydriasis of from 5 to 20 hours dura tion when used in a 10 per cent solution. Its use is not followed by bad effects

HOSPITAL TAY IN ST PETERSBURG -The municipal authorities of St Petersburg have determined to impose a tax-if the Czar permit-on all citizens more than 17 years old Men will be taxed \$100 and women \$ 75 All persons paying this tax will be treated gratuitously at the hospitals

RETIREMENT OF PROFESSOR DONDERS - PRO-FESSOR FRANCISCUS CORNELIS DONDERS, the well known ophthalmologist of Utrecht, celebrated his seventieth birth day on May 27, and retired from his chair in the University, according to the Netherland law

ONTARIO MEDICAL LIBRARY ASSOCIATION -This Association has been formed to provide a reference medical library for the use of the profession in On The nominal capital is \$10,000, the shares being \$5 each

LIPANINE, a substitute for cod-liver oil, is a sub stance made by Kahlbaum, of Berlin, by partial sapon Kohts claims that he has been ification of olive oil pleased with the results of its use in his children's clinic in Strassburg

EXTRAORDINARY REJECTION OF CANDIDATES -In British Columbia this year all the candidates wno went before the examining board were referred to their studies It should be said that the all included two candidates only

A MARBLE BUST OF CARL SCHRODER was placed ATROPIA POISONING—In the Virginia Medical in the Frauenklinik of the University of Ber in 6"

SPECIAL ARTICLE

THE TRANSPLANTING OF A RABBIT'S COR-NEA INTO THE HUMAN EYE

DR JULIAN J CHISHOLM has recently successfully performed this operation at the Presbyterian Eve. Ear and Throat Charity Hospital, of Baltimore city The patient was a healthy man, 35 years of age, who had lost both eyes from the effects of caustic lime three years since Symblepharon, or the union of the eye hids to the entire surface of the eye balls, was the outgrowth of the accident, with the sloughing surfaces of conjunctiva induced by the lime Operations had been done successfully to liberate the lids from the cornea, but still the fleshy opaque cornea remained with no prospect whatever of clearing up In this hopelessly blind man Dr Chisholm has suc cessfully performed that wonderful operation devised by Prof von Hippel, of Giessen, Germany, viz the insertion of a clear piece of a rabbit's cornea into an opening made for it through the opaque human cor-This section and fitting can be done only by the use of von Hippel's cornea trephine, a circular blade similar to that of the artificial leech, made to run by clock-work.

To perform the operation properly the opaque comea of the human subject must be removed down to Descemet's membrane, which must not be punc-This requires great delicacy in the manipulation of the trephine When nearly the whole thickness of the cornea has been cut through the circular piece must be seized by the forceps and drawn away, leaving the thin lining membrane of the anterior chamber intact With the same trephine a duplicate plug of the rabbit's cornea is taken, going this time quite through into the anterior chamber, and therefore including the membrane of Descemet necessary to have this additional thickness in the graft to make it equal to the piece of cornea removed trom the human eye, so as to keep the superficial surfaces on the same plane The round segment from the rabbit's cornea is then carefully adjusted to the opening made in the centre of the human cornea, Descemet's surface to Descemet's surface, and represents a clear central corneal window corresponding to the pupilary space The closure of the hids with compress and bandage completes the operation a very few days the graft, as in skin grafting, becomes adherent, and the wonderful effects of this delicate operation begin to be enjoyed by the patient

As both the man's and the rabbit's eye were under the effects of cocaine, no pain was experienced by the man nor exhibited by the rabbit

So far as is known only three ophthalmic surgeons have performed this operation Dr von Hippel, in Giessen, Dr Fox, in Philadelphia, and now Dr Chisholm, in Rallimore. The adventure of the trans. The advantages of this transplantation cannot be applied to all lost eyes Unfortunately it is restricted to cases of corneal opacity in which the internal structures of the eye retain their Integrity Ins, pupil, lens and retina must all be good, otherwise no benefit will accrue stored sight to a large class of persons heretofore New York and New Iersey were also elected considered hopelessly blind

SOCIETY PROCEEDINGS

CONNECTICUT STATE MEDICAL SOCIETY

Held in the City Hall, New Haven, May 23 and 24, 1888

WEDNESDAY, MAY 23-FIRST DAY

THE PRESIDENT. DR FRANCIS BACON, of New Haven, called the Society to order at 3 P M

After hearing the report of the committee on credentials, THE PRESIDENT delivered his

ANNUAL ADDRESS

He welcomed those present, and spoke upon the Proposed Changes in the Charter These had caused serious disturbance in the Society for a number of years, and he hoped that it would be settled this year so that more time could be given to scientific work He advised that a standing committee be appointed to watch the interests of the Society in the legislature of the State, so that no injust laws, in regard to the profession, should be passed without a protest from this body. He would be pleased to see the meetings of the Society held in the several cities of the State, and not alternate between New Haven and Hartford, as has always been the custom thought, would create an interest in some parts of the State where at present there was no interest felt

He announced that both the Treasurer and Secretary declined to hold their positions any longer, and that it would be necessary to elect new men to hold the offices that had been so ably filled for so many He thought the President should be chosen on account of his fitness and not because he came from any particular county, and it was a detriment to the Society to follow any rotation in the position of President

THE TREASURER reported that there had been received during the year \$768 21, and there had been expended \$695 20 He had on hand at present \$832 13

DR I C DALTON, of New York, was elected an honorary member of the Society

The committee on honorary members proposed the name of DR EDWARD M MOORE, of Buffalo. According to custom this was laid over until the next annual meeting

The following were elected

OFFICERS FOR THE ENSUING YEAR

President-Dr Geo L Porter, of Bridgeport Vice President-Dr O Brown, of Washington Treasurer-Dr W W Knight, of Hartford Secretary - Dr N E Worden, of Bridgeport Committee on Matters of Professional Interest-

Dissertator-Dr P H Ingalls

Delegates to the American Medical Association-Drs J B Kent, C B Newton, E C Kinney, W H Welch, S J St John, C B Hill, F D Edgarton, W H Bull, B W Mun on and F E Beckwith

restrictions, however, open this great blessing of re-Hampshire, Vermont, Massachusetts, Rhode Island, Delegates to the Medical Societies of Maine, New

In the evening the Society was invited, by the faculty of the Yale Medical School, to attend a

MICROSCOPICAL SOIREE,

after which Dr Francis Bacon tendered a reception to the members at his residence

THURSDAY, MAY 24-SECOND DAY

At 9 P M the Society was called to order, with the President in the Chair The Secretary reported that there had been received during the year

THIRTY FOUR NEW MEMBERS,

that ten of the old members had died, and two had been dropped from membership A large number had left the State during the year The total membership at present is four hundred and ninety-four

The Annual Address of THE PRESIDENT to the So ciety was then given In this the President spoke of

THE RELATION OF THE INSANE TO THE LAWS OF THE STATE

This State compares most unfavorably with the majority of the States Any "reputable physician" can send his neighbor into confinement by certifying that he is insane He thought a competent and permanent commission should be appointed to act in all cases of suspected insanity He also spoke of the plea of "emotional insanity" so often brought before the courts, and said he was glad the courts of Connecticut had never been disgraced by such a He did not think experts could diagnosticate between emotional insanity and uncontrollable an-The expert testimony often given was of no value, the witness generally testifying for the side they were employed He asked the question, What are the "romantic indicia," and what is their diagnostic value? In listening to the expert witnesses we are impressed with the abundance, variety and certainty of these signs, but in studying the best systematic treatises we are struck with the poverty and insignificance of the same phenomena as materials He quoted a number of cases where for diagnosis time proved that the expert testimony was just opposite to the true state of affairs

He thought in all cases of homicidal mania, even if emotional insanity, that society demands as a protection against future attacks, that the person in question should be confined for life and not for any defin-

Delegates from Massachusetts, Vermont and Rhode Island were then introduced and made a few remarks

This was followed by reports of delegates from

this Society to those of neighboring States

DR R M GRISWOLD read a paper, taking his sublect from Genesis, III, 16

"IN SORROW THOU SHALL BRING FORTH CHILDREN"

He said man was perfect until the downfall of Adam, and as a punishment pain and sickness was sent Deformed and diseased women are met everywhere by the obstretician He then spoke at length of the means we have of assisting women in labor For hot tea, and exercise He gave the quinine in doses speaking more particularly upon the prevention than

of from 2 to 5 grains every twenty minutes until four or five doses had been given, and this was usually all that was required Chloroform and emetics he used for rigid os When the pain was so severe a woman could not help herself, a little chloroform at the be ginning of the pain would be of very great assistance Forceps he thought of great utility, and wondered that in this age of building monuments that the women did not build a monument to Chamberlain, their inventor By the use of forceps the number of still-births are greatly lessened and ruptures more infrequent

In the discussion that followed DR Douglas said that he thought quinine, combined with an aromatic, more effective than when given alone

DR KINNEY would never give ergot until the child could be immediately delivered, but would never hesi tate to use forceps when the vagina began to grow dry

DR J McKeniston read a paper on

PARALDEHYDE

As a sleep-producer this drug was what had been sought for for many years There was no disagree able after effect He recommended that it be given after the patient had obtained what natural sleep he He frequently had given it in 3j doses until three doses had been given, and then if the desired effect was not obtained he used something else, but in his hands it had seldom failed. It is a perfectly safe drug and is not likely to injure any important As compared with chloral and bromide, he considered its action quicker than than of chloral and as safe as bromide and more to be depended upon

DR G M SHEPHERD read a paper on

THE FREQUENCY OF ALBUMIN IN THE URINE OF THE HEALTHY

For a long time this has been observed and recog nized to be of only temporary occurrence He quoted the late Dr Flint as saying that albumin in the urine, even with casts, was not always a grave symptom He read a large number of statistics showing the fre quency of this occurrence

ALCOHOL IN THERAPEUTICS

was the title of a paper read by DR E F PARSONS Scripture was quoted by him to show that in the time of Christ, and long before that, alcohol was used He thought no one should hesitate as a medicine to use it when nature demanded it. It is a stimulant to the brain, heart and stomach, increases the size of the capillaries and raises temperature He asserted It can carry on the duties of that alcohol is a food the body, for a time, without the loss of weight It should be used in all diseases that cause death by He said that Dr B W Richardson, of London, and Dr N S Davis, of Chicago, were among the most prominent of those opposed to alco hol in therapeutics, and even these gentlemen used it in some instances

DR C B NEWTON read a paper on

PNEUMONIA,

be kept in the dwelling houses and work shops than 15 usual in most houses and manufactories

DR J K THACHER read a paper on the

RELATION BETWEEN CARDIAC HYPERTROPHY AND NEPHRITIS

He gave the history of a case of nephritis following scarlet fever. From the first appearance of the nephritis there was increased arterial tension, and later cardiac hypertrophy A few weeks after the , nephritis disappeared This case and others similar lead him to believe that the cardiac hypertrophy was secondary to the nephritis

DR G C SEGUR reported a case of

TYPHOID FEVER IN A CHILD AGED 13 YEARS

This had been treated with antipyrin in doses of 15 to 20 grs with the best of results He thought antipyrin particularly suited to the treatment of the high temperature of typhoid fever

The papers that had been read before the several

county societies were read by title

The meeting adjourned at 3 PW, to the New Haven House, where the annual dinner was held

PHILADELPHIA COUNTY MEDICAL SOCIETY

Stated Meeting, May 9, 1888

THE PRESIDENT, J SOLIS-COHEN, MD, IN THE Chair

DR G E DE SCHWEINITZ read a paper on SOME CASES OF HABIT CHOREA, AND THEIR TREATMENT

As is well known, there are certain local choreas for which no definite cause can be assigned, and in which, as Dr Wood puts it, the movements closely simulate purposive acts A child suffering with this malady-for it usually occurs in children, especially girls—is brought for treatment because it has adopted some trick of gesture An eye may be rapidly winked, or the eyeball rolled upward, or the brow wrinkled, or the facial muscles contorted, or, it may be, the shoulder is shrugged, or a forward movement of the head or jaw indulged in At first these movements are under the control of the will, but gradually become more and more obstinate, and more and more aggravated, especially when atten tion is drawn to them, and sometimes the variety of the performances in a single day is truly remarkable This affection has been admirably described by Dr S Weir Mitchell, and from him has received the name Habit Chorea.1

A number of these cases have occurred to me in the past few years, in which the examination and treatment of the eyes have proved of distinct advantage to the patient, and these may prove interesting

Case I -A B, a gurl, at 10, was referred to me by Dr Wharton Sinkler, Feb 2, 1885 This child

treatment He thought a lower temperature should had been brought to Dr Sinkler about a year before, and then the following facts were elicited No history of rheumatism, scarlatina when 6 years old General health good, appetite and digestion normal The movements noted were confined to the orbicularis, the right side of the face and neck, and to the In spite of the most judicious antichoreic treatment these remained unchanged The following results were obtained by an eye examination

Amplitude of accommodation 8 D

OS — Amplitude of accommodation 8 5 D

Conjunctive injected, slight blephantis in each eye, and a history of successive crops of styes

O D Small oval disk, choroid ring all around, absorbing at outer side Retina markedly striated, veiling all edges of disk except the temporal Many lymph reflexes OS Oval disk, less retinal striation, but inner side of disc veiled

Atropine solution to full ciliary paralysis was ordered, and the error of refraction determined. This proved to be as follows

OD + 2 SC + 1 C, axis 90 OS + 2 25 SC

+ o 60 c, axis 90

The full correction was ordered, the constitutional remedies continued and the result was an entire cure of the spasmodic movements

Case 2 - J H B, a lad æt 17, referred to me by Dr S Weir Mitchell, Nov 5, 1886 This boy had consulted Dr Mitchell because he had "got a trick" of twitching his eyes and rolling the balls upward Before he saw Dr Mitchell he had been treated with a long course of arsenic and a number of antichoreic and antispasmodic remedies without avail An eye examination revealed the following points

Amplitude of accommodation 7 D.

Amplitude of accommodation 6 D

Conjunctival watery and posterior conjunctional vessels injected and tortuous

O D Small nerve, a white patch over central ves-Retina much striated and general choroidal disturbance, with a halo-like band at the lower and outer side of the disc OS Small nerve Central lymph sheath full, and nerve surrounded by a broad halo-like band

Sulphate of hyoscyamia to full ciliary paralysis was ordered, and the correction of the refraction error determined as follows

OD + 0 60 c, axis 60 OS + 0 25 s - + 0 60 c, axis 90

This glass was ordered, and after several months of rest the boy allowed to resume his studies Ten month later he returned, and the movements had almost absolutely disappeared His vision then,

through the correcting glass, was with each eye,-

and the amplitude of accommodation was 10 D Through these glasses there was at 30 centimetres

^{1\}errous Diseases 2d edition by S Weir Mitchell M D

an exophoria (insufficiency of the interni) of 4°, no disturbance of equipoise at twenty feet. The abducting power was 7°

Case 3-M E, a girl, set 18, referred to me by Dr Wharton Sinkler, May 20, 1887 The patient's The patient hermother had chorea when a child self was perfectly healthy until she was 10 years of She was then attacked with general chorea, which, however, chiefly affected the face, arms, and the shoulders At 12 years of age menstruation was established, and the chorea ceased, except for the movements of a spasmodic character, which continued in the face, eyelids, and eyebrows time these grew better, but later, for a space of two years, grew worse, and the habit became more fixed In April, of 1887, the patient was in fair general health, with occasional dyspeptic attacks and dysmenorrhæa The movements were now confined to the upper part of the face, and consisted in sudden tight closing of the eyes, rapid raising of the eyebrows and wrinkling of the forehead, with to-and-fro movements of the occipito-frontalis, and an occasional jerk of the head and shrug of the shoulder The movements were not constant, but were increased when attention was drawn to the trouble The eye examination yielded the following results

$$OD \xrightarrow{15} XX$$
 Amplitude of accommodation 8 D

O S
$$\frac{15}{XX}$$
 Amplitude of accommodation 8 D

Conjunctivæ slightly suffused, distinct dread of light, and the retrotarsal folds studded with numerous phlyctenules. In each eye round disk, slight crescents at the outer sides, and marked retinal striation. Refraction doubtful, fundus best studied with concave glass, probably spasm.

Atropine in full strength was used for four days, and complete ciliary paralysis secured The vision

steadily rose, and on the fourth day was easily

and unimproved by any glass, in short, the eyes were absolutely emmetropic. The mydriatic was continued until all traces of the phlyctenular conjunctivitis had disappeared, and the retinal congestion had subsided. During this treatment the movements markedly decreased, although formerly under the best of internal medication these had stubbornly resisted. About a year later, when last seen, the head movements had entirely ceased, there was an occasional shrug of the shoulder, the eyes were comfortable, the vision and accommodation normal, esophoria 2° at 5 metres.

Case 4—D G, a boy, set 10, referred to me by Dr James C Wilson, under whose care the patient was for catarrhal jaundice. For some time the boy had adopted the habit of "making faces." This peculiarity had well-nigh ceased during a period when he was laid up in bed with an injury. One movement, however, persisted, viz, a remarkable spasmodic contraction of the right orbicularis palpebrarum almost as complete and decided as if a pebrarum almost as complete and decided as if a current had been applied to the motor point.

O D $\frac{15}{XV}$ Amplitude of accommodation 9 D

 $OS\frac{15}{XV}$ Amplitude of accommodation 10 D E

ophoria in accommodation 7°

Eyelds heavy, caruncles swollen The con junctiva, especially of the forms, reddened and velvety, and the lymph follicles swollen, slight muco purulent discharge in the mornings Reading was an effort, and sometimes occasioned headache

O D Round nerve, central venous lymph sheath full, retina striated OS Oval disc, slightly hazer retina, and full venous lymph sheaths Cumulative instillations of homatropine were ordered, and the refraction tested and found to be OD + o 65 s OS + o 50 s

This glass was ordered for all near work, and the local condition in the conjunctiva treated with boric acid, insuffiction of calomel, and later painting with a weak solution of nitrate of silver Internally, Dr Wilson ordered Fowler's solution in ascending doses

A month later a letter stated that the eyes were more comfortable, and the twitching was seldom noticed

Case 5—S B, a girl, at 16, referred to me by Dr S Weir Mitchell Jan 9, 1888 This patient was a finely developed girl, perfectly healthy, no history of rheumatism, scarlatina, or fright She had formed the habit of rapidly winking, or spasmodically closing the eyes, especially the right one The movement, at first under the control of the will, gradually became fixed, and was a source of much annoyance and embarrassment She also suffered from severe brow-ache An examination of her eyes

yielded the following results $OD\frac{15}{\lambda V}$ Amplitude

of accommodation to D OS T Amplitude of accommodation to D Evophers in accommodation

accommodation 10 D Evophoria in accommodation 7° The external appearances of the eyes were normal, the conjunctive smooth, the vessels free from congestion Full atropine mydriasis was secured, and the refraction error determined OD + 225 s OS + 225 s

A full correction was ordered, Fowler's solution was given internally, and one month after the treat ment was begun the headaches had disappeared and the spasmodic movements well-nigh subsided

for an eye examination This lad was of fine physical development, with no family or personal nervous taint, except that he had for some time been noticed to squint his eyes inward, as children often do "for fun," and rapidly close and open his eye making at the same time a curious grimace. The boy was very fond of books, and this habit was most marked when he was poring over some work which was especially interesting to him. The eye examination

tion was as follows $OD = \frac{15}{yy}$ Amplitude of 20

commodation 8 D OS $\frac{15}{V}$ Amplitude of accom-

modation 8 D No insufficiency

Conjunctive suffused, and posterior vessels in-

rected

In each eye irregularly oval disks, conus, full central lymph sheaths, and general retino choroidal disturbance H = 15 D V V higher Atropine and correction of the refraction error was advised, but advice was declined. The boy was, however, forbidden to use his eyes for near work as much as possible and given the usual remedies. When last heard from he was reported as better, but the habit spasm still continued.

Case 7—W F C, a young man, æt 18, applied for treatment Jan 17, 1888 His general health was good No history of rheumatism Works hard in a factory A few years ago, when about 12 years of age, had attacks of "chorea," confined to the muscles of the face, chiefly the orbicularis This passed away under general treatment For some months past he had acquired the habit of rapidly closing and shutting his eyes, with a quick, snapping movement No other muscles affected This was partially under control of the will, but was made worse under examination The eyes were examined and found as follows

O D $\frac{15}{V}$ Amplitude of accommodation 8 5 D

L Hyperphona 1°

OS Amplitude of accommodation 85 D

Exophoria 20

Conjunctivæ injected, but not catarrhal, no phlyctænules or swollen lymph follicles Small oval optic disks, nasal edges veiled, and coarse retinal striatum above and below, veins and central sheaths full Distinct dread of light

Atropine was ordered, and continued for several days Under this the refraction was found to be

OD+060s OS+050s

These glasses were ordered for constant wear No constitutional treatment was given Some months later he was reported as comfortable, so far as the eyes were concerned, and that the nervousness had departed.

These seven cases suffice to give an idea of what service the correction of the errors of refraction was in the treatment of this disorder In three of them the habit spasm, as Gowers would say, had existed for a long time, and judicious internal medication and proper hygiene had failed to achieve the desired result, which result, however, was attained after the eyes had been thoroughly treated and corrected In two others the constitutional and the eye treatment were begun simultaneously, and the rapid improvement showed the value of this combination In one instance the eye examination and the correction of the anomalies of refraction were declined, and the habit still continues In another the wearing of the glasses was the only course pursued and the result

refraction existed these were either hypermetropia or hypermetropic astigmatism, in two the errors were 2 D and more, in three less than 1 D, and in one the eyes were emmetropic It is not unworthy to call attention to the fact that so low an error as o 50 D may prove an exciting cause, the removal of which aids in restoring the patient to a normal tone Case 3 is especially interesting, because here a general chorea disappeared, and in its place came a habit chorea-for there is no doubt that the disorder in this patient is correctly so classified-exactly as Dr Mitchell has observed, in a few instances these cases lapse into well-pronounced chorea of the ordinary It is further useful to observe that the eyes in type this case were emmetropic, but that when the existing spasm of accommodation and phlyctænular conjunctivitis had disappeared under the use of the atropine. the patient made rapid strides along the road to recovery This leads me to speak of the value of closely observing the condition of the conjunctiva. especially of the retro tarsal folds, in this malady Years ago, the late Prof Fr Horner called attention to the fact that children, when they first attended school, were sometimes observed to be given to undue winking of the eyes and that without the presence of strong light As an accompaniment, there were often movements of the muscles of the face, arm, or leg these cases the local cause was most often found to be some disorder of the conjunctiva, especially follicular catarrh, blepharitis, or an anomaly of refraction. usually hypermetropia Indeed, in a few instances. the local condition was manifestly the exciting cause of a chorea minor Treatment of the conjunctival catarrh and correction of the hypermetropia, removed the difficulty Not only may the local conjunctival disturbance and the refraction errors exist, but there may be also imperfect equipoise of the eye-muscles It is scarcely necessary to refer to this as a possible important factor In recent times much graver neryous disorders have been attributed to such insufficiencies of the ocular muscles, and for their correction by surgical and other means, most brilliant results have been claimed

It is very far from my intention to give an undue importance to these errors of refraction and inflammation of the conjunctiva as exciting agents in the causation of habit chorea. I am not unmindful of the large number of instances that may be directly traced to nasal disorders, to diseases of the pharyn, nor do I forget that other large class to which no adequate cause can be assigned. I only wish to recall to the memory the value of searching for these among the other causes, and to emphasize the facts that if the habit spasm especially affects the muscles of the face, particularly those around the eye, the following points deserve attention

The condition of the refraction and the muscular balance should be carefully examined and if found abnormal corrected

2 The anomaly of refraction should be determined under complete ciliary paralysis and the full, not a partial, correction ordered

Was most favorable In all the cases where errors of zweite Abheilung Tubingen z 3 Jacobi Amer Jour Med Sciences > S 18 5 xcl 31-3-

3 This correction should be employed in conjunction with proper internal medication and general hygiene and not to the exclusion of these measures

DR S Solis Cohen I have met, more especially in dispensary practice, with a number of cases similar to those reported Prof DaCosta has for many years called the attention of his classes at the Jefferson Hospital Clinics to this group of choreic disorders associated with eye-strain, and during my service as Chief of the Medical Clinic there would be from three to six such cases presented during the term In nearly every instance the defect was hypermetropic astigmatism, in most of the few remaining, simple hypermetropia, in one or two, if my recollection serves, simple astigmatism In order to note the effect of correction of the refractive error the medication was confined to peppermint water Some of the cases were affected with facial spasm only, but a few had spasm of the limbs as well In one or two cases the spasms were unilateral, though I cannot say now whether the error was also unilateral pression is that it was not

In every case that remained under observation cure was effected by the correction without medication Some of the patients disappeared after correction and in these, presumably, recovery was immediate case now under my care in private practice, a girl complained of frequently falling in the street, from sudden failure, as she expressed it, "of the knees" The eyes were prominent, and the heart rapid, so that a suspicion of Graves' disease was entertained About a week ago Dr Jackson corrected the hypermetropia which he discovered, and to-day the girl reported to me that she had been perfectly well since The apparent protrusion of the eyes being due to muscular effort, has disappeared, and the cardiac rapidity has abated

I presume that the reason we find this association of nervous spasm with hypermetropia rather than myopia, is that the former gives greater and more constant strain upon the muscles of accommodation

OBSTETRICAL SOCIETY OF PHILADELPHIA

Stated Meeting, Thursday, May 3, 1888 THE PRESIDENT, T M DRYSDALE, MD, IN THE CHAIR

DR JOSEPH PRICE reported a case of TYPHOID FEVER FOLLOWING OVARIOTOMY

Mrs E N, æt 37, one child sixteen years ago, one miscarriage fourteen years ago, complaining since miscarriage of great pelvic pain, etc, was operated on at the Gynecean Hospital, February 11, 1888, for the removal of the right uterine appendages The tube and ovary were firmly adherent to and under The ovary was enlarged and cysthe fundus uteri The removal was not difficult and the operation was completed in twenty minutes Two years previously the left appendages were removed for a small inflamed and adherent ovarian cyst, the right side at which is often retained until the next depletion that time appearing perfectly healthy The recovery

from this first operation was speedy, and for a year the patient seemed in perfect health. Then the symptoms of pelvic trouble returned and were referred to the right side From the second operation the patient reacted perfectly, and for nine days her temperature constantly remained above normal, varying from 98 6° to 100 1°, the intermissions never amounting to 1° During this time she also com plained of a good deal of headache, weakness and mental depression On the evening of the ninth day her temperature ran up to 102° and she had a slight From that time she presented a typical case of typhoid fever, including the characteristic temperature record, stools and eruption The nervous symptoms were not particularly marked The tem perature varied from 99 8° to 104 8° for four weeks The patient made a good recovery and is now in better health than before the operation

The points of interest in this case are, first, that the patient was probably in the early stage of typhoid fever when she entered the hospital, there having been no cases of typhoid in or near the hospital at that time, second, the operation did not seem to in fluence the course of the fever nor the fever the re sult of the operation, third, the temperature, com bined with the early constipation and meteorism, were naturally attributed to the operation and treated accordingly until the diagnosis of typhoid fever was made, after which the usual expectant treatment for that disease was pursued

DR HOWARD A KELLY exhibited a

KNIFE-BLADE TENACULUM

While he had rarely found, in his experience, that local depletion was alone valuable as an agent for the cure of any form of uterine disease, he frequently found it a powerful adjuvant, similar in its results to the benefits obtained from the cotton tampon

Chronic or recurring pelvic congestions, accompa nied by great pain and discomfort, can often be tapped by a free depletion of the cervit, and the pa tient's condition temporarily much improved Many of the neurotic symptoms associated with a congested, puffy, blue, plethoric cervix, also undergo marked improvement with this plan of treatment, judiciously carried out, combined with applications of glycerole packs or tamponning

He knew of no other method equally serviceable and speedy for the treatment of lacerations of the cervix with eversion and infiltration of the lips Many cases upon which he had heretofore been in the habit of operating now recover perfectly when thus treated, and remain well if the uterus is prevented from sag ging, by giving proper support to a torn or relaxed outlet Except in the latter condition, when associated with lacerations, depletion is not often called for in

spare or anæmic patients To secure any advantage by this method it must I am in the habit of be carried out thoroughly drawing from 6 drachms to 1 oz or 11/2 oz of blood every five days or once a week, following the dep't tion immediately by a glycerole or boracic acid pack,

To deplete the congested pelvic organs he has used

the cervix on both vaginal and uterine surfaces and the vault of the vagina, the latter being used in a senes of experimental studies He is not sure that it has any special advantage over the simple depletion of the Serious difficulties have occasionally arisen in other hands from too deep a penetration of the scanfier, which may wound an artery of large calibre and give rise to alarming ha morrhage Difficulties also anse in the use of the spear-pointed instruments. ing the operator to desist or to make but few punc-A serious practical objection against the straight instruments in use, is that the depletion can only be practiced with safety and satisfaction upon the prominent rounded extremity of the cervix obviate these objections he had invented the "knifeblade tenaculum" here figured, which had been in



extensive use in his office for many months made like an ordinary tenaculum with a blade in place of the hook This blade is placed at an angle slightly obtuse to the handle, and about the same length as the point on the ordinary rectangular uterine ten-In using it the cervix should be fixed by a tenaculum in the uterine canal, when the small, short blade of the instrument can be plunged rapidly in a number of places into the vaginal surface of the cerviv anteriorly and laterally, and even within the cervical canal, being sometimes used to open a very small external os The shortness of the blade, and the fact that it is placed at an angle to the shaft, prevents a deep and dangerous penetration, and if the cutting edge is kept sharp and it is used with rapidity it oc casions, as a rule, but little pain to the patient

This tenaculum is made entirely of metal, 71/2 in in length, tapering gracefully from handle to the blade, which is 130 of an inch long, 110 of an inch broad at its base, 16 of an inch wide on its back satisfactory model has been made by Mr Gemrig, of

this city, who furnishes the wood cut DR J C DA COSTA was glad to hear Dr Kelly speak so highly of the value of depletion in certain diseases of the uterus He was in the habit of exemplifying this by the exhibition, each winter, of one or two suitable cases to his class at the Jefferson Hospital He thought if from 1 to 4 ozs or more blood was removed, instead of 6 drachms, that the effect would be better A woman who, when placed on the table, is suffering with great pain and with an argr, looking cervix, will, after such treatment, leave the table free from pain and with the uterus paled The knife exhibited he thought was very pretty, but an ordinary straight bistoury enabled him to puncture the neck all over and inside as well Even if an artery were cut it was of small matter The trouble usually was that the bleeding stopped too If he removed the speculum the bleeding al most always stopped, but the speculum was always replaced to make sure that this was stopped

DR WM GOODELL remarked that there was one point which Dr Da Costa had overlooked, and that was that, in most cases, simple exposure of the cervix to the air by the speculum will cause it to become pale, although he granted that the effect was doubled by the loss of blood He used to bleed very frequently, and occasionally still did so, but not so often as formerly, because he believed the importance of uterine congestion was overestimated With which often occasion great pain to the patient, oblig- reference to the hæmorrhage, while he in a measure agreed with the last speaker, that it was not usually to be feared, yet he had a patient who bled so furiously after she reached home that she had to send for a physician to check it On one occasion, while plunging a Battles spear, he struck a vessel of such size as to throw a stream of blood directly out of the But ordinarily the difficulty was to secure speculum When the punctures bleed too much enough blood he touched each one with a pointed stick of lunar caustic, which never failed to stop the hæmorrhage

> DR PARISH could endorse all that Dr Kelly had For a number of years he had practiced this method of depletion of the uterus, whether there was laceration or not, when the organ was in a condition of congestion He also emphasized what had been said with reference to the relief and cure of symptoms in cases of laceration of the cervix. He had seen as a result in many of these cases a perfect union of the denuded surfaces, but a continuation of the pain and distress and frequently an increase of In cases where the laceration was dysmenorrhæa not deep he substituted the method of local depletion, conjoined with other treatment, for the operation He added that depletion of the cervix, and particularly of the canal, was one of the best methods of treating many cases of endometritis He had seen sterility of eight and ten years' standing practically cured by this method of depletion

> DR KELLY thought that 1½ ounce of blood removed every few days was quite sufficient forming the depletion the patient lies on the back with either Goodell's or Nelson's speculum in place, which conducts the blood into a wide mouthed bottle with graduated capacity He was glad that the members had expressed themselves so freely and favorably in this matter, as these are the practical conclusions at which he had arrived

FOREIGN CORRESPONDENCE.

LETTER FROM LONDON

Sulfonal, a New Opiate-Bicarbonate of Potash in Iodoform Poisoning—Attempt to blow up a Hospital— Gluten Bread-Dwarfing by Factories and Tenements-Treatment of Spinal Abscesses-Virchow

Professor Kast announces his discovery of a new He calls it "sulfonal" and it belongs to the group of the so called di sulphates, and in an oxydation product of the union of "acthylmerkuptan" with acetone, in crystals without taste or smell, easily dissolvable It has the property of inducing

sleep in invalids, particularly in nervous people and 10,000 being rejected for undersized chests, 2,000 those affected with heart disease, but not in healthy Prof Kast has observed that "sulfonal" produces sleep without altering the pressure of the blood in any degree An accident led to the discovery of the sleep producing property of "sulfonal" It had been administered to some dogs with quite a different intention and the animals first were affected as if with intoxication, and afterwards fell into a deep sleep Experiments made on healthy persons, chiefly medical men, and then on patients in hospitals and lunatic asylums, have proved that the drug is a harmless and certain means of producing sleep in invalids

A 20 per cent solution of bicarbonate of potash has recently been given as an antidote in a case of severe iodoform poisoning As the best results followed, there has been of late to look upon this salt as a direct antidote to iodoform It would be interesting if some of the pharmaceutical chemists would investigate the action of bicarbonate of potash on

10doform

An attempt has been made to blow up a wooden building intended as an isolatory hospital at St George's, an extensive suburb of Bristol There had been, it appears, a strong prejudice against the use of the site for this purpose, it being used as a playground by children The local authorities, however, persisted The building was erected and placed in charge of a caretaker, but no patients had yet been sent there Upon examination immediately after the report it was found that a quantity of gunpowder had been placed under the east corner and fired with a fuse, fortunately the charge being unskilfully laid

very little damage was done A better kind of gluten bread is now being used by invalids suffering from diabetes, it resembles ordinary bread in its general aspect, and is not unlike in taste certain kinds of cakes which are readily eaten by most people Moreover it is easily masticated The formula from which this new gluten bread is made is set down thus Best quality of yeast 20 grams, cold water 120 grams, butter 125 grams, gluten flour 500 The yeast is For one loaf grams, and 4 eggs stirred carefully and quietly into the water, then the eggs and butter are added and the whole melted The gluten flour is mixed in and worked up with these ingredients, and a round loaf is thus made which is about 18 inches wide and 20 inches deep, it is placed before the fire for about an hour, to cause the dough to rise, and is baked in an oven heated from below It is stated on all hands that the above is an improvement on the old kind of gluten bread which gave practitioners so much annoyance, as many patients could not eat it, and complained of its feeling like so much parchment in the mouth

According to the annual report of the Inspector General of Recruiting, it would appear that there is no escape from the conclusion that the influence of factory and tenement is progressively dwarfing a large mass of the population It appears that in the last year 74,991 men offered themselves for examination, 15,280 were rejected on account of bad health, of these the defects are more precisely mentioned, assuming that the paralysis was not to be taken as a

were under weight, and 4,000 under height

Mr Watson Cheyne, in discussing the treatment of spinal abscesses, considers three things have es pecially to be considered—the contents of the abscess, the wall, and the lesson of bone from which they start, although the latter cannot always be made out Mr Cheyne recognizes three types of tubercular abscess, (1) tubercular cavities containing soft, cheesy material, (2) tubercular sequestra, either unseparated or in cavity lined with tubercular granulations, and (3) superficial cases of bone In the first class curvature is commonest, but the last is most extensive, and is chiefly found in adults, accompanied with abscess The contents of these abscesses is not true pus, but broken-down cells and tissues floating in a variable This fluid when inoculated pro amount of fluid duces in guinea pigs tuberculosis. The pyogenic or ganisms take no part in the production of the chronic abscesses, but grow freely in their unexhausted con tents, consequently the entrance of putrefactive fer ments into the cavities causes chronic osteomyelitis Mr Cheyne advocates two methods of of bone treatment, one in which the abscess was cured with out opening it, and by the injection of iodoform and glycerine or iodoform dissolved in ether, and the other method by antiseptic opening Statistics of 56 cases under his treatment, of which 73 2 per cent healed These were mainly psoas abscesses, and 125 died but dorsal, lumbar and cervical were included Cures are most numerous between 28 and 30 years of age The average time of healing is found to be from eight to nine months

DOMESTIC CORRESPONDENCE

LETTER FROM NEW YORK

(FROM OUR OWN CORRESPONDENT)

Diphtheritic Paralysis—Increase of Diphtheria in New York—Commencement of the College of Physi cians and Surgeons

At the last meeting of the Neurological Section of the Academy of Medicine, Dr W H Thomson read an able paper on the Clinical History, Pathology, and Etiology of Diphtheritic Paralysis In it he ex pressed the opinion that all the acute febrile diseases are accompanied by a post latent stage, and that in diphtheria this post latent stage is characterized by the paralytic trouble so frequently met with after an acute attack of this affection Such paralysis he be lieved to be an essential part of the disease, due, in all probability, however, not to the disease itself, but to the presence in the system of certain resulting pto-He thought, also, that some of the cases of diphtheritic paralysis were of peripheral, and some of central, origin

In discussing the paper Dr A Jacobi said that there were undoubted cases of central origin on record, and that even a few instances of ataxia had been ob-He believed that Dr Thomson was right in sequela of diphtheria, but rather as really part and fauces which ran an indefinite course it certainly was diph- ent of the deposit of membranes there thena, this course sometimes being extended over many months other contagious diseases was that, once having had stage of diphtheria attacks In many cases, he believed, the repeated attacks noted simply indicated the continuous pres ence of the disease, which during the intervals remained hidden away in the tonsils or lymph bodies, and was likely at any time to break forth afresh a rule, the paralysis first appeared in the fauces, affecting deglutition, and then successively involved the muscles of ocular accommodation and those of the extremities Finally, there might be respiratory paralysis, which not infrequently proved fatal This order could not, however, be relied upon in any particular instance, and in making a diagnosis in cases where there had been no throat symptoms, one of the main points to be depended upon was the fact that in diphtheritic paralysis only a comparatively small number of muscles are usually affected at the same time Another point was the fact that the sphincter muscles are never, or almost never, involved in the paresis

Paralysis sometimes came on during the acute stage of diphthena In heart failure, which was so common an occurrence in this disease, there was, no doubt, a the pneumogastric occur in any case of diphtheria, and he said he had alcoholic stimulants and cardiac tonics from the very After symptoms of heart trouble had once apof any service Respiratory paralysis was about as fatal as heart failure Hence, the most energetic measures were called for to combat it, and strychnia and electricity should be pushed to the utmost extent possible

Dr Andrew H Smith said it seemed to him very remarkable that we should so frequently have recovery from diphtheritic paralysis when the anatomical lesions were of so marked a character, and that the paralysis had always been somewhat of a stumblingblock to him in trying to accept the view that diphthena is originally a merely local disease He had no doubt that there were cases of diphtheria in which no membrane ever appeared, and the fact that inoccurred without any previous throat symptoms certainly went to sustain the idea that diphtheria is es-In scarlatina and the other exanthemata the avail eruption did not constitute the disease Dr Smith then referred to the case of a child whose mother had

This would seem to indicate that diphtheria

Dr L Putzel said that he did not understand ex-One difference between this and actly what Dr Thomson meant by the post-latent This disease was different from it, the subject was all the more hable to subsequent scarlatina because, in scarlatinal nephritis, the bacterium which was the exciting cause of the acute affection still remained in the system It seemed to him that the acute attack of diphtheria left the nervous system in a weakened condition, in which any slight cause might bring on paralysis As regards the fact that the paralysis usually makes its first appearance in the fauces, the reason for this seemed to be because the throat was so markedly affected in the As to those rare cases in which paacute attack ralysis occurs without any previous local trouble, he said he was not aware that a sufficient number of these had been observed to base any conclusions upon

Dr Malcolm McLean described a very severe and prolonged attack of diphtheritic paralysis which occurred in his own practice a few years ago, and in which he said that more muscles and a greater extent of cutaneous surface were affected than was usual in cases which recover It lasted for four and a half months, and involved the muscles of respiration as well as those of the throat and of both the upper and failure of the heart nerves, either the sympathetic or lower extremities, but did not affect the sphincters This was an accident liable to On the fourth day of the acute attack of diphtheria which preceded the paralysis symptoms of heart failtherefore always insisted on the free administration of ure made their appearance, and the heart continued weak throughout the course of the subsequent pa-On one occasion the pulse, the ordinary peared it was usually too late for such remedies to be rate of which was 52, fell to 32 (afterwards suddenly rising for a time to 160), and this was accompanied by a most violent attack of angina pectoris, which The practical point came very near proving fatal which Dr McLean said he wished to impress was the necessity in such cases of the most absolute rest. In his own case faradization and galvanism were systematically employed for a long time, and in order to receive the treatment he had to be taken in a carriage to the office of the physician who applied it though the electricity was given with the greatest skill, however, he only grew worse, instead of better, except as regards the original paralysis of the fauces, which in time became materially relieved At length, so great was the pain and discomfort which he sufstances were on record in which diphtheritic paralysis fered, that he determined to take absolute rest in bed, and as soon as he adopted this course he began to improve He remained in bed for a month, and sentially a general disease, while the membrane was so satisfactory was the result that he was firmly consimply an indication of it, just as the erythema of vinced that, in these severe cases, unless this absolute scarlating was the outward manifestation of that dis- rest is insisted on, no other treatment will be of any

Dr S Seabury Jones mentioned a case of tabes dorsalis that occurred in a druggist who had received diphtheria in which the diphtheritic membrane ap- a wound in the hand while assisting in a tracheotomy peared, not in the throat, but in the groin, where performed on a diphtheritic patient, the paralysis the skin had become chafed It was also remark-commencing in the injured hand. In such cases, acable, he may be the paralysis sometimes how able, he went on to say, that in cases of diphtheritic cording to Trousseau, the paralysis sometimes, howparalysis not preceded by the appearance of mem-ever, attacked the throat first. He then referred to branes in the throat the paresis usually began in the a case in which the trouble resembled bulbar paral-

ysis, although a good recovery was made under the use of strychnia and iron In this case the patient was a woman who nursed her child through diphtheria, but, as far as could be ascertained, did not have any membranes herself, although she complained of sore throat at the time Trousseau, he said, had long ago described in the most admirable manner all the varieties and characteristics of diphtheritic paralysis, and there was no question in his own mind that the lesion in this affection might be either central or peripheral

The chairman of the Section, Dr W R Birdsall, said that as regards the pathology of diphtheritic paralysis he also believed that, while in many instances there was simply a neuritis, cases of undoubted central origin sometimes occurred latter, however, the central lesion was apt to give rise also to peripheral degeneration In adults diphtheritic paralysis was relatively more common than in children, and it very often occurred in cases in which the original attack of diphtheria was very light As to the matter of heart failure, it was a question, he thought, whether the trouble was of the same plegia-Phthisis-Complications in Bright's Diseasenature as the paralysis noted after the acute attack, or was merely functional in character, and a point against its paralytic origin was the early stage at which it occurred As regards the etiology of diphtheritic paralysis, it seemed to him entirely possible that it might be due to the original poison which caused the acute attack of the disease, the delay in its appearance being perhaps attributable to the comparatively long time which it takes for such touc the medical staff will suffice to show where a large agents to act upon the nervous system

In bringing the discussion to a close Dr Thomson said that he had purposely refrained from taking up tne subject of heart failure in the paper, for the Physicians of Lowdon, 1885, in a very extended reason that it was attended with so many complicating circumstances He doubted very much, however, whether it was due to the same cause as the later pa-In many instances he believed that myocarditis existed, and it seemed altogether probable that this was the fact, from the description given, in He had not touched upon the Dr McLean's case matter of therapeutics in the paper, but he quite agreed with Dr McLean that electricity was of no It was highly desirvalue in diphtheritic paralysis able, he said, to stimulate the peripheral extremities of the nerves, and this could best be accomplished by applying to the throat equal parts of honey and In paralysis of the extremities a soblack pepper lution of pepper (1 drachm to the pint) was also a As to Dr Putzel's criticism useful local application of his so called post-latent period of diphtheria, Dr Thomson said that the paralysis was to him an indication of certain processes going on subsequently to the acute stage, and that he could but again express his conviction that a similar post-latent stage was characteristic of all the acute fevers This postlatent stage varied in its manifestations in the different diseases, and it seemed highly probable that its phenomena were due to the action of ptomaines

is clearly shown in some statistics recently published however, by a reference to the table of distance by the Health Department. From these translations are the statistics recently published however, by a reference to the table of distance to the table of distance to the table of the statistics recently published however, by a reference to the table of distance to the table of the statistics recently published however, by a reference to the table of distance to the table of the statistics recently published however, by a reference to the table of the statistics recently published however, by a reference to the table of the statistics recently published however, by a reference to the table of the statistics recently published however, by a reference to the table of the statistics recently published however, by a reference to the table of the statistics recently published however, by a reference to the table of the statistics recently published however, by a reference to the statistics recently published however, by a reference to the statistics recently published however, by a reference to the statistics recently published however, by a reference to the statistics recently published however, by a reference to the statistics recently published however, by a reference to the statistics recently published however and the statistics recently published however and the statistics recently published however are the statistics recently published however and the statistics recently published however are the statistics recently published however and the statistics recently published however are the statistics recently published how the statistics recently published how the statistics recently published how the statistics recently published how the statistics recently published how the statistics recently published how the statistics recently published how the statistics recently published how the statistics recently published how the statistics recently published how the statistics recently published how the statistics r by the Health Department From these it appears Here we find recorded 34 deaths from typhoid fever,

that during the ten years from 1868 to 1878 there were 1,488 deaths reported from diphtheria and croup, and during the ten years from 1878 to 1888, 2,295, the percentage of the total death-rate of the city being 1 52 in the former decade, and 1 72 in the latter

The first Commencement of the College of Physicians and Surgeons in its new buildings was held May 10, when a class of 120 was graduated On this occasion the first Harsen prize (\$500), for the best examination in all the branches of study, was awarded to a son of Professor Henry B Sands

The New York Medico Legal Society has begun to make preparations for an International Congress of Medical Jurisprudence to be held in this city in June, 1889

CINCINNATI LETTER

Report of the Cincinnati Hospital, Mortality from Typhoid Fever and Sunstroke—Symptoms in Typhoid Cases—Complications in Acute Rheumatism—Hemi Injuries followed by Tetanas—Obstetrical Statistics— Death of Eminent Medical Men—Dr C D Palmer

The twenty-seventh annual report of the Cincin nati Hospital has just been issued, and it is the best report that has ever been issued from that institution It gives evidence of much care in its arrangement and painstaking in the material selected for publica The following quotation from the report of part of the credit for the admirable report belongs "All of these cases have been carefully classified ac cording to the nomenclature of the Royal College of form, by Mr P Alfred Marchand, Registrar to the Staff, and it is hoped it will be regarded as an important contribution to the statistics of the general hospitals of the world"

In a previous letter it was mentioned that the clinical and Pathological School of the Cincinnati Hospital had become a department of the University of Cincinnati, and the report, in speaking of the union, says "The organization authorized by your Board of the Staff Service, under the title of the Clinical and Pathological School of the Cincinnati Hospital, and its union with the Medical Department of the University of Cincinnati, has been most successfully accomplished, and as one result the number of students attending the course of clinical lectures has doubled, and thereby the income for the support of the Library and Pathological Museum has

been increased by \$1000 " The total number of patients treated during the year amounted to 4,027, of whom 352 died, thus making a death-rate of 8 3 per cent The deathmaking a death-rate of 8 3 per cent rate for the previous year, ending Dec 31, 1886, 1 ... 83 per cent From this it appears that the dear rate for the year 1887 is 10 per cent higher than that of the preceding year

The increased mortality may be largely explained,

and 16 from sunstroke The large number of these cases that occurred during the year, and their morslightly higher death rate

The mortality from typhoid fever was 16 25 per Thirty-four out of 209 cases terminated This mortality is not excessive for hospital winter months was mild, and this factor must enter mortality

the year amounted to 1,937, of surgical, 1,509, ophthalmological 206, and obstetrical and gynecological 300 The average number of days of each patient's stay in the hospital was for medical patients 17 58 days, surgical 30 31 days, ophthalmological 51 days, and obstetrical and gynecological 30 19

Some observations of interest as regards the symptoms and complications of particular diseases are also set forth in the report For instance, in typhoid fever cases we learn that 152 out of 200 cases occurred in males Diarrhoea was present in 78 of The youngest primipara was 16, the oldest 37 these cases, 37 had vomiting, 46 had cough, 37 had vomiting, 46 had cough, 35 had delirium (an unusually small proportion), 50 had sweating, 18 had epistaxis, 60 had rose-spots, 72 had gurgling, 52 had tympanitis, the highest pulse was 180, highest temperature 1135 (?) Of the females, 23 had diarrhœa, 24 had vomiting, 18 had cough, 8 were delinous, 13 had sweating, 7 had epistaxis, 22 had rose spots, 25 had gurgling, 17 had tympanitis The highest pulse was 190, temperature 105 4 One had perforation of the intestines, 2 had intestinal hæmorrhage, I had peritonitis, I had phlebitis, and 1 had diphtheria.

In the cases of acute rheumatism treated the following complications were noted Twenty eight had mitral insufficiency, i had chronic alcoholism, mitral stenosis, 1 had mitral insufficiency, aortic stenosis and insufficiency, 2 had aortic stenosis, 1 had mitral stenosis and insufficiency, I had pleuritic weight 7 pounds, 4 oz, and length 18 inches

and one had syphilitic cerebral thrombosis case of chorea was complicated by subacute rheu-

Among the phthisical cases there were found two who also had mitral insufficiency This combination, is uncommon, but that valvular disease of the heart does sometime coexist with phthisis is proven by these statistics

The complications noted as being found with Bright's disease are the following Two had cedema of the brain and mitral insufficiency, I had acute gastritis, 1 had tuberculosis, 2 had valvular disease of the heart, 2 had erysipelas, developed in the hospital, I had phthisis, I had mitral stenosis, I had delirium tremens, and I had mitral insufficiency

A very interesting portion of the report is that de voted to the details of treatment adopted by each

member of the Staft in typhoid cases These reports are well written and carefully prepared, so that one tality will be amply sufficient to account for the can very profitably read them carefully, and perhaps obtain some ideas that may be of future service

A feature of the surgical report that is at very great variance with the reports published abroad is in regard to character of injuries followed by tetanus cases, for a considerable proportion of the fatal Nicolaier and Rossback in some statistics showed cases were moribund when admitted The type of that tetanus usually, in fact almost always, occurred typhoid fever that prevailed here during the early in cases in which the lower extremities were the seat of wounds, and from this fact argued that the bacillus into consideration as helping to explain the low of tetanus was found in the earth, this report shows that the cases in which tetanus developed were con-The total number of medical cases treated during fined exclusively to injuries of the hand and arm thus one had a laceration of the hand, one had a lacerated wound of the index finger, and one had a mashed hand

The appendix to the obstetrical report furnishes some very interesting features, which will probably There were 234 be of interest to many readers women delivered during the year, about 65 per cent of whom were primipare, 20 per cent were duiparæ, r had twelve previous pregnancies The average age of the primiparæ was 21 years and 10 months average age of the multiparæ was 25 years and 10 months The youngest multipara was 17 and the oldest 42

Average duration of labor - Primiparæ 16 hours, 10 minutes, 2d stage 2' 20", 3d stage 14" Multiparæ 1st stage, 10' 15", 2d stage, 2' 18", 3d stage 12"

Presentations,-Primiparæ vertex, 147, breech 6 Multiparæ vertex 75, face 2, breech 3, footling 1

Positions — Primiparæ SOA, 95, ROA,
45, ROP, 3, SDA, 4, RDP, 1, RDA, 2, unknown 3

Sea of children -Primiparæ gave birth to 75 male and 75 female children, multiparæ to 45 male and 37 female In two cases of twins both were females Primiparæ male children weighed 72/3 pounds, and I had aortic insufficiency, I had erysipelas, 4 had were 1814 inches in length, female, weight 7 pounds and length 18 inches Multiparæ male, weight 7 pounds, 4 oz, and length, 16 inches, females,

Seven cases suffering with hemiplegia had syphilis est 3 pounds, female, heaviest 10 pounds, lightest Premature labor occurred in 10 cases 3½ pounds

These extracts from the report will serve to give a fair idea of the work of the past year, as well as to indicate the fact that much credit is due the resident physicians for their careful and painstaking preparation of the clinical histories

During the past year the local profession has been singularly unfortunate in losing the services of four valuable members Drs Dun, Heighway Muscroft and Aub have been called away, and Dr C D Palmer met with an accident, which to say the least. will incapacitate him for a considerable space of As these are all men who were prominent in medical work, men possessed of large experience and liberal views, it will be found a very difficult matter to fill their places

POTASSIUM PERMANGANATE IN ANTHRAX AND FURUNCLE

Dear Sir —Further experiment with this salt on the line indicated in my communication some months since warrants me in announcing it as a veritable spe-

cific against many phlegmonous lesions

The strength of the solution employed is usually about gr x-31 of distilled water, though a much stronger preparation may be used with safety a cotton-tipped probe or hypodermic syringe attempts should be made to reach the fons et origo mali A few drops thus brought into contact with the cone of a recent boil will, in a majority of instances, abort it Or if the furuncle be already opened and suppurating, its tedious progress may be materially abridged by daily saturating the cone and its surroundings with the solution

If, on the other hand, we have a carbuncle to contend with, its focus of inflammation may be reached through one or more of the cribriform avenues, the site of which can be made out even before pus has

appeared on the surface

Within the present month I have cured two large carbuncles, which involved the nuchal regions of two elderly men In one case the induration extended to the spine of the scapula on one side and for several inches on the other Neither of the gentlemen had been free from acute pain nor slept for more than forty-eight hours I described to them the new treatment but, recognizing the importance of prompt action, advised immediate and full incision of the two chose to try the new remedy first, and it was so done The result, as shown on the following day, was all that could be desired, rest had been secured, and the entire aspect of affairs had changed for the better The dressing employed, meanwhile, was a lead and opium, or permanganate, lotion cov-Tonic treatment was advised ered with oil silk rather as a prophylactic, for the treatment of neither case occupied a week

Phlegmonous erysipelas is so rarely seen here that I may never have an opportunity to test the remedy in that direction, but I suggest that the inflamed area be circumscribed or environed by a series of deep injections, with a superficial dressing of the same should certainly expect to arrest the disease us hope that some of your readers will test the pro-C M FENN, M D cess and report

San Diego, Cal

RAILWAY INJURY OF NECK, WITH FRACTURE OF HYOID BONE

Dear Sir -Mr T, on May 4, while at work in the mine was caught between a car and the roof When called to see him I found marks behind the ears which looked very much as if the man had been On examination of the anterior right side of THE DEATH OF DR EDWARD S DUNSTER the neck found a large wound made by an iron on The æsophagus and trachea were exposed from the cricoid to above the lupoid bone piece seemed to have passed behind the anterior tissues nearly through from right to left The thyroid

cartilage was considerably bruised and the hyoid bone was completely severed just to the right of the

It was a question how to hold the ends of bone together, I having no silver wire and could get none in The patient could swallow only with the greatest difficulty, and in the recumbent position breathing was difficult I concluded to try silk I first put a stitch below each piece, which were separated about one-half inch, and thus brought the ends nearly into position, I then passed a large silk thread through the pieces and was then enabled to get good The wound was then closed and the opposition ends of thread brought to the lowest point It healed nicely In a few days the lowest thread came away, and to-day, three weeks after, the one through the bone was removed

For the first two days there was considerable use of temperature but that subsided under treatment and the man made a good recovery

C W HAWLEY, M D

Streator, Ill, June 6, 1888

"ELEVATING THE STANDARD," AND HOW EASY'IT IS DONE

Dear Sir —Aside from the plain proposition that the elevation of any standard is the duty of the one bearing it—the method so long discussed—of its ap plication to the proper qualification of students enter ing medicine—is no less simple Exactly as the terse rule "that the proper way to resume specie payment, was to resume specie payment," solved a great finan cial problem So does the above A B C method set tle this old question of an over crowded profession by unqualified members Witness the proof During the past year the writer has received from three young men, applications as office students Although each applicant was bright, ambitious, and in a general sense promising, it was only requisite to state to the candi date the preliminary qualifications required by schools of the highest standard, to convince them that they One is now equipping himself could not enter wherein he was deficient, and the other two have entered vocations the demands of which they are amply qualified to meet, as proven by success and satisfaction already attained

Here, Mr Editor, are two young men rescued from a life struggle with semi-starvation, a profession slightly relieved, and the world at large benefitted The way to resume is to resume, and the way to elevate the standard of medical acquirement is for the H C MARKHAM, M D colleges to elevate it

Independence, Iowa

NECROLOGY.

WHEREAS, It has pleased Almighty God to remove from his earthly sphere our worthy companion and professional brother, Dr Edward S Dunster, of Ara Arbor, Mich, therefore, be it

Resolved, That we as a Society tender to his grow stricken family our heartfelt sympathies

To the profession before whom he has appeared so eloquent in address, logical in his reasoning, honest in his opinions, which he maintained with his utmost power, and above all, his loyalty to his profession he so dearly loved, and for whose best interests he so long and sedulously labored, we can only say that the loss of one so eminent can illy be told in resolutions or words, in this the heart alone can speak

In obedience to the Almighty power that rules the destinies of men, that can build up or cast down, that can give or take away, we bow in humble submission about the bier of our departed friend, fellow member

and professional brother Be it further

Resolved, That our Secretary transmit a copy of these resolutions to the press and to the family

> WM BRODIE, MD, HAL C WYMAN, M.D. C HENRI LEONARD, M D, Committee

Office of the Sec'y of the Wayne Co Medical Society, Detroit, May 4, 1388

BOOK REVIEWS.

THE SURGICAL DISEASES OF THE GENITO-URINARY ORGANS, INCLUDING SYPHILIS By E L KEYS A.M., M.D., etc. A Revision of Van Buren and Keys' Text book upon the same subjects pp xv, 704 New York D Appleton & Co 1888 Chicago A C McClurg & Co

Since the appearance, in 1874, of the original treatise upon which this revision is founded there have been many changes and much progress in the surgery of the genito urinary organs litholapaxy has had its buth and development, supra-pubic cystotomy has received new study and attention, new methods of exploring and operating upon the bladder have been studied and brought to some degree of perfection, the surgery of the kidney has been reconstructed, as has been, to a great extent, that of the tunica vaginalis and of varicocele, and our therapeutic resources in syphilis have been added to and greatly strength-It is to be expected, therefore, that this revision differs much and in many particulars from the work of 1874—and such is the case The book has been entirely recast The clinical cases of the original work have been omitted in order to make room for new matter

Masterly as is the book there are in it, in our opinion, two serious defects there is not one word in it, so far as we have been able to discover, concerning the treatment of stricture of the urethra by electrolysis, and the subcutaneous use of mercury in syphilis is dismissed in a paragraph as being scarcely worthy of consideration We can but think that the failure to even mention electrolysis was due to inadvertence—surely it could not have been intentional Whatever may be the future estimate of the value of electrolysis in the treatment of certain cases of stricture of the wrether the statistics now at hand show examination of two cases," by Dr A W Wilmarth, of Elwyn, that the method is at least worthy of mention by the

It is the duty of the vidual opinion on the subject author of a scientific work to present facts as they are, not as he wishes they were—and we believe that Dr Keyes, writing to present facts as they are, or as he thinks they are, must have overlooked the subject of electrolysis

As a whole the book is one that will bear the closest study, and is entitled to the same high rank in medical literature that was given the original work

THE PHYSICIAN'S BEDSIDE RECORD The Plimpton Míg Co, Hartford, Conn

This was designed for the purpose of keeping a permanent record of the clinical features of disease, recorded at the patient's bedside It comprises a page for the preliminary history of the case, twentyeight pages for the recording of as many days' observations, ruled one line for each hour of the day, with spaces for pulse, temperature, respiration, medicine, notes of nurse, and directions and notes of physician, following these are three closely ruled pages for the physician's notes or history of the case, and concluding, there is a chart for a tracing of the pulse, temperature and respiration, showing at a glance the variation for each day of the disease

While most physicians probably have a method of their own for case-taking, this pamphlet book will prove exceedingly useful, especially for the preservation of records of cases of protracted illness, as of typhoid fever, etc If by its convenience it encourages more universal case recording, it will accomplish

much good

MEDICAL PUBLICATIONS, HARVARD MEDICAL SCHOOL

This is a neatly bound volume comprising papers upon medical subjects that have been written during the year 1887 by the Faculty and instructors of Harvard Medical College The papers as they appear here are reprints from various periodicals that have been collected and bound together The subjectmatter of each is interesting, and only articles of originality have been admitted to the collection

MISCELLANEOUS.

Association of American Institutions for Idiotic AND FEEBLE MINDED PERSONS -- The twelfth annual session will commence at the Rossin House, Toronto, Canada, on Mon day, June 18, at 3 o'clock, P M, moving to Orillia on the followday, June 18, at 3 o'clock, P M, moving to Orillia on the following morning. By resolutions of previous sessions, the following reports will be called for "On Causation of Idiocy, etc.," Since the control of the work before the people and legislatures of the various States," (min p 43) "On Development and Progress of the Institutions represented." "Improvements in School Training and Hospital Care introduced during the past year" "Clinical reports of special cases," (mm. p 41)
The following papers have been promised

author of a work of this kind—whatever be his indi-by Dr A E Osborne, of Santa Clara, Cal.

Dr J Q A Stewart, of Frankfort, Ky
5 "Kindergarten for Feeble minded Children," by Dr S J

Fort, of Ellicott City, Md

6 "A study of twenty cases of Hemiplegic Idiocy, at Elwyn,"
by Prof Wm Osler, of Philadelphia, Penna

7 "Notes on Examination of Eyes, at Elwyn," by Dr Chas

Oliver, of Philadelphia 8 "What is meant by Physiological Education," by Dr

Isaac N Kerlin, Elwyn, Penna

9 "The present condition of the Education of Imbeciles in Great Britain," by George E Shuttleworth, M D, Royal Al bert Asylum, Lancaster, England

ISAAC N KERLIN, Secretary

Elwyn, Penna, June 1 1888

THE LATE DR A B PALMER —The following resolutions were adopted at a meeting of the Executive Committee of the Ninth International Medical Congress, held at Cincinnati, May 9, 1888

Resolved, That this Committee desire to place on record its sense of profound sorrow at the death of our late associate, Dr

A B Palmer

Resolved, That we, in common with his professional brethren throughout the country, deplore the loss of so gifted and zealous a laborer in the cause of medical science, whose brilliant achievements during a long and useful professional life was fitly supplemented by his many private virtues

Resolved, That we extend to his bereaved family our sympathy

and sincere condolence

CHICAGO MEDICO LEGAL SOCIETY -At the annual meeting of the Chicago Medico Legal Society, held June 2, 1888, the following gentlemen were elected officers for the ensuing year

President, Dr E J Doering
First Vice President, Dr Boerne Bettman Second Vice President, Eric Winters, Esq Treasurer, Dr L L McArthur Sicritary, Dr Scott Helm

THE NATIONAL ASSOCIATION OF RAILWAY SURGEONS will hold its first meeting in the city of Chicago, in Parlor O of the Palmer House, June 28, 1888, commencing at 9 30 A M Every surgeon who is in the employ of any railway company is invited to this meeting For further information apply to the Chairman of the Committee of Arrangements, Dr C B Stemen, Ft Wayne, Indiana

INDIANA STATE MEDICAL SOCIETY —At the annual meet ing in Indianapolis, June 6, 1888 the following officers were elected for the ensuing year President, Wm H Wishard, M D, Indianopolis, Vice-President, Albert G Porter, M D, Lebanon, Treasurer, C B Higgins, M D, Peru, Secretary, E S Elder, M D, Indianapolis, Assistant Secretary, C H Light, M D, Madison

NEW YORK STATE MEDICAL ASSOCIATION—Fifth District Branch, will hold its sixth special meeting at Babylon, Suffolk Co, N Y, on Tuesday, July 31, 1888 L H Squibb, M D, Brooklyn, Secretary

THE MITCHELL DISTRICT MEDICAL SOCIETY Will hold its semi-annual meeting at the French Lick Springs, Indiana, June 21, 22 and 23, 1888, commencing at 10 30 A M

NEW YORK STATE MEDICAL ASSOCIATION -The Third District Branch will hold its fourth annual meeting in Odd Fellows' Hall, Norwich, Chenango Co N Y Thursday, June 21, 1888, commencing at IO A M

NEW BOOKS RECEIVED

Inebriety, by Norman Kerr, M D Philadelphia P Blakis ton, Son & Co

Abdominal Surgery, by J Gerig Smith Second edition Philadelphia P Blakiston, Son & Co

The Physician's Leisure Library, No 9 The Infectious Diseases, by Karl Liebermeister, Vol II Detroit Geo S The Infectious Dis Davis

"Industrial Education at the Kentucky Institution," by The Language of Medicine, a manual giving the origin, etymol ogy, pronounciation and meaning of the technical terms found in medical literature, by F R Campbell, M D, A M New York D Appleton & Co

> OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM MAY 26, 1888, TO JUNE 8, 1888

> Major Robert H White, Surgeon, will report to regimental commander First Infantry, to accompany Hdqrs Field, Staff, Band, and battalion of First Infantry to Santa Barbara, Cal, on or about June 15, 1888, to remain until about September 1, 1888 S O 25, Div Pacific, May 28, 1888
>
> Capt S G Cowdry, Asst Surgeon, ordered to accompany the

troops of the Sixteenth Infantry from Ft Bliss, Tex, to It Douglas, U T, as medical officer Will return to his station upon the completion of said duty S O 54, Dept Texis,

May 19, 1888
Capt D M Appel, Asst Surgeon, upon arrival of Capt J V Lauderdale, Asst Surgeon, at Ft Davis, will proceed to Camp Pena Colorado, Texas, for temporary duty at that camp, and upon return of First Lieut H S T Harris, Asst

Surgeon, to Camp Pena Colorado, Asst Surgeon Appel will return to Ft Davis S O 57, Dept Texas, May 28, 1888 First Lieut J R Kean, Asst Surgeon, will accompany Troop C, Ninth Cavalry, from Ft Robinson, Neb, to Ft DuChesne, Utah, and return with Troop B, Ninth Cavalry, to Ft Robinson, S O can Part Platet, Names 2009.

inson S O 39, Dept Platte, May 19, 1888
First I ieut E R Morris, Asst Surgeon, granted leave of ab sence for one month, with permission to apply for an extension of one month S O 61, Dept Ariz, May 28, 1888

Capt James A Finley, Asst Surgeon, granted leave of absence for six months, on surgeon's certificate of disability, with per mission to leave the Div of the Missouri S O 129, A G

O, June 5, 1888

Capt Robt B Benham, Asst Surgeon, is relieved from duty at Ft DuChesne, Utah, to take effect upon completion of the duty assigned him in par 2, S O 33, c s, Dept Platte, and will then proceed to Ft Laramie, Wyo, reporting to the commanding officer for duty at that post S O 44, Dept Platte, June 4, 1888

First Lieut James E Pilcher, Asst Surgeon detailed as mem ber of board of medical officers appointed by S O 105, A G O, May 10, 1888, to meet at U S Military Academy, West Point, N Y, to examine candidates for admission to the Academy, etc., vice Major Robert M O'Reilly, Surgeon, relieved S O 128, A G O, June 4, 1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS OF THE U S NAVY, DURING THE WEEK ENDING JUNE 9 1888

Surgeon A F Magruder, detached from the "Yantic" and granted sick leave

Medical Inspector B F Kidder, detached from the "Richmond'

mond" and wait orders
Surgeon B F Maclise, detached from Naval Examining Board

preparatory to sea service
Surgeon T C Heyl, ordered to the receiving ship "St Louis"
Surgeon T H Streeter, from "St Louis" and to Medical E.

amining Board as recorder A Surgeon W R DuBose, from Naval Hospital, Norfolk,

and to the "Jamestown" A Surgeon Howard Wells, from the Jamestown" and to Naval Hospital, Chelsea

OFFICIAL LIST OF CHANGES OF STATIONS AND DUTIES OF MEDICAL OFFICERS OF THE U S MARINE HOS PITAL SERVICE FOR THE WEEK ENDING JUNE ;

Surgeon P H Bailhache, detailed as chairman Board of Fr aminers, to meet in Washington, June 25, 1888 June 8,

Surgeon C S D Fessenden, detailed as member B and of Ev ammers, to meet in Washington, June 25, 1859 Ju. ed,

Surgeon George Purviance, detailed as recorder Board of Figure iners, to meet in Washington, June 25, 1858 June 8, 1933

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

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No. 25

ADDRESS IN OPHTHALMOLOGY.

THE TENDENCY OF MODERN OPHTHALMOLOGY

Delivered at the Thirty ninth Annual Meeting of the American Medical Association, Cincinnati, May 9, 1888

BY F C HOTZ, MD,

OF CHICAGO, ILL

CHAIRMAN OF THE SECTION OF OPHTHALMOLOGY

There are times in medical science when opinions and doctrines show a remarkable oscillatory motion, swinging like a pendulum forward and backward, sometimes to come back to the point from which they had started out many years ago This unsteady movement makes it very difficult, if not impossible, to determine whether any real progress has been made

within a short period

One of the most remarkable instances of the unstable nature of medical opinions is furnished us by the history of the cataract operations since 1860 that time the corneal flap operation reigned supreme But when von Graese published, in 1865, his "Modified Linear Extraction," and demonstrated its supenonty over the older method by a marked decrease in the percentage of failures, his operation quickly gained favor with the ophthalmic surgeons and en tered on a triumphant march over the world, which is only eclipsed by the phenomenal rapidity with which cocaine in our days conquered the medical profession of all nations In a few years Graefe's operation had superseded the flap operation so completely that the vounger generation of oculists know the latter only from books, and in the course of two decades the superiority of Graefe's method, proven in thousands upon thousands of cases, seemed so firmly established that we all were thoroughly convinced it marked a decided and important progress in ophthalmic surgery And to day—what do we see to day? In all ophthalmological journals and societies voices are loudly urging the return to the corneal flap operation In the Ophthalmological Section of the last International Congress this question excited a very animated discussion, and almost at the same time the same question was brought up before the German oculists in Heidelberg by Prof Schweigger, of Berlin (Graefe's successor!), who expressed himself unreservedly in favor of the corneal flap operation We cannot close our eyes to the fact that this back to where it stood thirty years ago?"

If newness and progress were identical in medical matters we could easily measure the advancement made in each successive year, and it would be an easy task for your chairman to carry out the dictates of the By laws of our Association, which charge him "to prepare an address on the recent advancements in the branches belonging to his Section" But real progress in medical science is of an exceedingly slow growth, slowly old views are modified and new theories evolved, and when they have taken form and flesh they have to stand the crucial tests of long-continued clinical observations before they can be accepted as an improvement or advance

This slow process of cleaning the chaff from the wheat renders it manifestly impracticable to measure the advancement in medicine by the year, and I therefore ask for your kind indulgence if, instead of undertaking the impossible task of determining the progress made in ophthalmology, otology and laryngology during the past year, I have chosen for the subject of this address some considerations regarding

THE TENDENCY OF MODERN OPHTHALMOLOGY IN ITS RELATIONS TO GENERAL MEDICINE

When Graefe began his reformatory work, ophthalmology, like the rest of medical science, was still largely permeated by the doctrine of "dyscrasies" The most affections of the eye were regarded and treated as manifestations of a general dyscrasia or impure state of the blood Constitutional treatment received the principal attention, local remedies were considered of little consequence Physicians had a holy horror of opening by daylight the eyes of children afflicted with the so called "scrofulous ophthalmia," they thought it not only inexpedient but unnecessary to examine such eyes every day

Graefe, in his travels, had been thoroughly convinced of the shortcomings of this therapy, and it was clear to his mind that the only trustworthy foundation for a rational and successful therapy was a thorough knowledge of the pathological changes which take place in the tissues of the eye in disease From the beginning of his practice to his last day he emphasized the paramount importance of daily examination and accuracy in observation. Upon this basis he built up his methods of local treatment and demonstrated by his brilliant success their superiority over the irrational therapy of the past.

reaction has already assumed a formidable size, and laid upon local treatment very soon created in mediback to where it stood thirty years ago?"

But the great stress which in Graefe's clinic was laid upon local treatment very soon created in medical circles the impression that Graefe and his pupils were inclined to rely upon local medication exclu-

sively, and to pay no attention to constitutional or other diseases which possibly might influence the oc-And it came to be generally believed ular affection that modern ophthalmology was so exclusive a specialty that it had no interest in or connection with general medicine

Nothing could be more erroneous than this idea Every leaf of the ophthalmological literature bears witness that modern ophthalmology is striving incessantly to establish the closest connection with general medicine by investigating the relations which exist between the ocular diseases and the maladies of the whole human body

In solving this great problem ophthalmology is endeavoring to answer these two questions

What effect have constitutional and organic diseases upon the eye?

2 What influence have morbid disturbances in the eye upon other parts of the body?

Many are the valuable contributions made by ophthalmologists to our knowledge of the etiological dependence of ocular affections from organic or systemic diseases, especially since the ophthalmoscope has greatly widened the field of these investigations In 1856 already Dr M Heyman, of Dresden, recognized and described the characteristic pathological changes in the retina associated with Bright's disease of the kidneys Diabetes was found not only to disturb the lens, but also to cause iritis and choroiditis, and leukæmia is now known to induce peculiar lesions in the retina Numerous observations have been recorded of the influence of cerebral and spinal affections on the visual organs, and of the effect of tobacco, alcohol, quinine, lead and other poisons Uterine disorders have been found a prolific source of ocular neuroses, and diphtheria a cause of paralytic affections, not to speak of innumerable new facts discovered in regard to the etiological connection of gout, rheumatism, syphilis and malaria with ocular diseases

It would be impossible in this short address to give a full list of all the work which has recently been done in this direction But even these few instances are sufficient to show that modern ophthalmology, far from ignoring the vital connection of the eye with the rest of the body, has been studiously at work to gain a better understanding of this relation on the basis of accurate clinical observations

Nor has it escaped the notice of observant oculists that ocular diseases sometimes exert a grave influence upon the whole organism or its several parts The febrile excitation in panophthalmitis, the violent headache in cyclitis, the terrible paroxysms of neuralgia, nausea and vomiting in acute glaucoma, the giddiness in slight paresis of ocular muscles-these and similar facts prove the diseased eyeball can exert a disturbing influence which may reach far beyond its immediate vicinity

And here is the point where ophthalmology comes into the closest contact with general medicine, since it has directed the latter's attention to the eye as the possible cause of many nervous disorders plaints of asthenopic patients periodic headache, diz- Geo T Stevens, M D New York, 1887 long been known to oculists that among the com-

ziness, nausea or a sensation of weariness are very common, and that all these symptoms are relieved by the glasses which correct the visual difficulty The fact thus proven, that eye strain is capable of seriously affecting the nervous system, logically leads to the inquiry whether the same cause may not be operative in many cases of neurotic affections where the patients do not show any manifest visual disturb Clinical observations on a large scale alone can decide this question And preeminent among those oculists who have undertaken this task, stands Dr Geo T Stevens, of New York, who during a series of years has carefully examined the visual functions of a great number of patients suffering from the various forms of nervous disorders, and also carefully studied the effect the correction of visual difficuities-where any were found-had upon the exciting nervous disturbance The recently published records of his researches1 are highly interesting reading not only for the oculist and neurologist, but for every physician, and it is a task worthy the combined ef forts of physicians and oculists to ascertain whether Dr Stevens is right or wrong in declaring "difficulties attending the functions of accommodating and of adjusting the eyes in the act of vision, or irritations arising from the nerves involved in these processes, are among the most prolific sources of nervous disturbances, and more frequently than other conditions constitute a neuropathic tendency" If these views be confirmed by further clinical observations, oph thalmology would most assuredly have rendered in valuable services to general medicine by disclosing a way of relieving many common and heretofore often intractable nervous affections

From a multitude of evidences con Gentlemen tained in the records of modern ophthalmalogy I have selected but a few which truthfully reflect the spirit of this specialty I wished to show that its attention and interest are not confined to the narrow anatomical limits of the visual organ, that its ten dency is to widen the field of its usefulness and to contribute its share to the advancement of medical science by solving the highly interesting problems of the mutual influence of the body upon the eye and Much has already been done, but much more, undoubtedly, could have been accomplished, had ophthalmology in these efforts been generously assisted by the medical profession But it cannot be denied that general medicine has, for a long time, shown a strange indifference to ophthalmology Do you ask for evidence? Look in your medical text books and see how little notice is taken of the most important discoveries in regard to the influence of general diseases upon the eye Look at your med Not one of them regards the study of ıcal colleges ophthalmology as important enough for medical stu dents to make the attendance of eye clinics obliga Ask your clinical teachers, and they will tell you the interest medical students and physicians take in ophthalmology is exceedingly low if gauged by the number of attendants at the eye clinics

Thus ignored by general medicine and divorced b,

its rapid growth from surgery, ophthalmology has wound and a penetrating wound complicated by inbeen forced into an isolated position never sought by jury of the gastro intestinal canal solve, ophthalmology appreciates too well the importance of the closest intercommunication and the active cooperation with all the other sections of medical science

The great diversity of the scientific work to be done by each branch necessitates the division of this Association into Sections But, while each Section should have its own organization and the privilege to carry out its work in its own way, we do not propose to sever our connection with the Association by establishing a special society, but, realizing the great mutual benefit coming from personal contact of the workers of the different Sections, we shall always bear in mind that one common interest binds all Sections together, they belong together, they can profit from each other, and they shall meet and work together for the advancement of the science and art of medicine

ORIGINAL ARTICLES.

RECTAL INSUFFLATION OF HYDROGEN GAS AN IN-FALLIBLE TEST IN THE DIAGNOSIS OF VISCERAL Injury of the gastro-intestinal canal IN PENETRATING WOUNDS OF THE ABDOMEN

Read in the Section on Surgery, at the Thirty ninth Annual Meeting of the American Medical Association, May, 9, 1888, and illustrated by three experiments on dogs

BY N SENN, M D, PH D,

ATTENDING SURGEON TO THE MILWALLEE HOSPITAL, PROFESSOR OF FRI (CIPLES OF SURGERY AND SURGICAL PATHOLOGY IN THE RUSH MEDICAL COLLEGE, CHICAGO, ILL.

The operative treatment of penetrating wounds of the abdomen complicated by visceral injury of the gastro intestinal canal is now sanctioned by the best surgical authorines, and may be considered as a well established procedure, based as it is upon the results of experimentation and clinical experience ceral wound of the stomach or any portion of the intestinal canal sufficient in size to give rise to extravasation into the peritoneal cavity must be looked upon as a mortal injury unless promptly treated by abdominal section A number of well authenticated cases are on record where a wound in the stomach or the large intestine healed and the patients recovered without the intervention of surgery, but these instances are so few that, practically, the force of the preceding statement remains unimpaired careful study of an namense clinical material Otis came to the important conclusion that gunshot in-Junes of the small intestines under the old expectant treatment without exception resulted in death, and this is a sufficiently cogent argument in favor of their treatment by laparotomy as affording the only chance of recovery

The great difficulty that presents itself to the surgeon in the absence of positive symptoms is the dif-

While the exisit, for, in the great task it has set before itself to tence of serious intra abdominal hæmorrhage can usually be readily recognized by well marked physical signs and a complexus of symptoms which points to sudden diminution of intra-arterial pressure, and thus furnishes one of the positive indications for treatment by laparotomy, the well-known fact remains that a visceral injury of the stomach or intestines seldom gives rise to symptoms upon which the surgeon could

rely in making a positive diagnosis

In the treatment of penetrating wounds of the abdomen laparotomy is resorted to either for the purpose of (1) arresting dangerous hæmorrhage, or (2) the detection and treatment of a wound or wounds of its hollow viscera. The first indication is readily recognized, and the diagnosis not only justifies the operation, but imposes it as a stern duty upon the surgeon from which he should never shrink recognition of the second indication offers greater difficulties, and the uncertainty of diagnosis which surrounds such cases is used as a sufficient argument by many in opposing the adoption of timely and efficient surgical treatment, and is responsible for the loss of many lives which otherwise might have been The uncertainty of diagnosis must remain in the way of a more general adoption of laparotomy in the treatment of penetrating wounds of the abdomen in the case of timid surgeons, and the same cause may lead to most unpleasant medico legal complications in the practice of bolder and more aggressive Clinical experience and statistics have operators demonstrated the importance of making a distinction between punctured and gunshot wounds in the abdomen, both in reference to diagnosis and treatment It is well known that penetrating stab wounds are less likely to be complicated by visceral injury than bullet wounds, consequently this class of injuries offers a more favorable prognosis and does not call so uniformly for treatment by abdominal section penetrating gunshot wounds of the abdomen do not always implicate the gastro-intestinal canal has been well demonstrated by experiment and clinical observation During the last two years three cases of bullet wounds of the abdomen came under my observation where no doubt could be entertained that penetration had taken place, and yet all the patients recovered without operation In all three cases the bullet had taken an antero-posterior direction As in private practice the treatment of penetrating wounds of the abdomen usually involves great medico legal responsibilities, it becomes of the greatest importance to arrive at positive conclusions in reference to the character of the injury before the patient is subjected to the additional risks to life incident to an abdominal

We will suppose a case In a quarrel a man is shot in the abdomen The assailant is placed under The surgeon who is called establishes the fact that the bullet has entered the abdominal cavity, and from the point of entrance and its probable diretion he has reason to believe that it has wounded ferential diagnosis between a simple penetrating cludes to verify his diagnosis by an exploratory laparsome part of the gastro-intestinal canal, and he con-

otomy, the operation is performed, and the most careful examination made, but no visceral wound is found The wound is closed and the patient dies on the third or fourth day of septic peritonitis attorney for the State charges defendant with murder

The defense will very naturally raise the questions "Did the man die of the injury or the operation?" "Shall the defendant be tried for assault and battery or for murder?" During the trial the attending surgeon is made a target for a volley of a medley of scientific and unscientific questions by the cunning attorney for the defense in his attempt to save his client from the gallows or State prison for life, at the expense of the reputation of the surgeon and the respect and good name of the art and science of sur-This picture is not overdrawn Such cases have happened and will happen again It is apparent that if some infallible diagnostic test could be applied in cases of penetrating wounds of the abdomen which would indicate to the surgeon the presence or absence of visceral lesions of the gastro-intestinal canal the indication for aggressive treatment would become clear and the medico-legal responsibility of cases requiring rectal alimentation, and when in a the operator would be reduced to a minimum we can never expect by a study of symptoms or by the ordinary physical examination to fill this gap, I was induced to search for some reliable test which in such cases should prove that the penetrating bullet or instrument had injured the gastro-intestinal canal It occurred to me that a wound in the stomach or intestine should be sought for in some such way as the plumber locates a leak in a gas-pipe The first object to be accomplished was to prove the permeability of the entire gastro-intestinal canal to inflation of air, and the next step was to find some innocuous gas which when inflated would escape from the intestinal wound into the peritoneal cavity, and from there through the external wound, where its presence could be proved by some infallible test

I PERMEABILITY OF THE ILEO-CÆCAL VALVE TO RECTAL INSUFFLATION OF AIR OR GAS

A great deal has been said and written in reference to the permeability of the ileo-cæcal valve to injections of fluids into the rectum or to the insufflation of air or gases The majority of those who have studied this subject clinically or by experiment make the positive assertion that the ileo-cæcal valve is perfectly competent and effectually guards the ileum against the entrance of both fluids and gases forced into the rectum, while others insist that it is permeable only in exceptional cases, and only a few claim that its resistance can be overcome by a moderate degree of pressure Heschl (Zur Mechanik der diastaltischen Darmperforationen Wiener Med Wochenschrift, No 1, 1881) made a number of experiments and satisfied himself that the ileo-cæcal valve serves as a safe and perfect barrier the resisting power of the coats of the intestine he forcible rectal injections of water as a means to refound that the service coat of the color found that the serous coat of the colon gave way first duce an invagination to overdistension, while the remaining tunics yielded subsequently to a somewhat slighter pressure

small intestine of a child on being subjected to overdistension ruptured first on the mesenteric side, the place where acquired diverticular are found Bull (Virchow's Jahresbericht, 1878, B 11 S 205) has found that in the adult one litre of water injected by the rectum will reach the cæcum, but that the entire capacity of the large intestine is from 4 to 5 litres He is of the opinion that in the living body fluid cannot be forced beyond the ileo-cæcal valve, although ancient and modern experimenters claim to have succeeded in the cadaver He affirms that when the rectum is distended by air the ileo cæcal valve is rendered incompetent and the air passes into the small intestines

Cantani (Virchow's Jahresbericht, 1879, B 11 S, 180) is a firm believer in the permeability of the ileo cæcal valve to fluid rectal injections In one instance he treated a case of coprostasis by an injection of a litre and a half of oil per rectum, and an hour later a part of the oil was ejected by vomiting He ad vises that the intestinal tract above the ileo cecal valve should be utilized as an absorbing surface in As diseased condition should be treated by topical apply cations

Behrens (Ueber den Werth der Künstlichen Auftrei bung des Dickdarmes mit Gasen u Fluessigkeiten Goettingen Dissertation 1886) concluded from his experiments that it required the insufflation per rectum of one and one eighth litres of air to reach the ileum through the ileo cæcal valve. In his experi ments he had no difficulty in overcoming the compe tency of the ileo-cæcal valve by rectal insufflation of air

Debierre (La valvule de Bauhin consideree comme barrière des apothicaires Lyon Medicale, No 45, 1885) made numerous experiments on the cadaverto test the permeability of the ileo-cæcal valve to rectal injections of fluids or inflation of air The results which he obtained were not constant In some sub jects the valve proved only permeable to air, in others, to both air and water, while in some no air or fluids could be forced into the ileum by any degree of When the intestine was left in situ the valve force was found less permeable than when the intestine had been removed from the body He attributes the different degrees of competency of the valve to van ations in the anatomical construction of the valve If both lips of the valve are equal in length, or if the lower lip is longer the valve was found impermeable It proved permeable in cases where the lower lip was shorter, contracted and smaller than the upper In the last instance the advancing volume of fluid or air lifted the upper valve, while in the former struc ture of the valve the margins of the lips of valve were pressed against each other, perfectly shutting on all communication between the colon and the ileum,

Mr Lucas ("On Inversion with Inflation in the Cure of Intussusception" The Lancet, January 16, 1886) enumerates the following objections again

r Owing to its weight it everts much too strong The lateral pressure for the intestine safely to bear, and by forcing in water

contact of a large quantity of water with the large bowel is apt to increase the tendency to diarrhola He claims, very properly, that air, on the other hand, is a natural occupant of the intestinal canal, and whilst its pressure is of the gentlest its presence exinflation is attempted

Dawson (Lancet and Clinic, Feb 21, 1885) made a number of experiments on the cadaver and came to the conclusion that when the ileo erecal valve is in a normal condition it effectually guards the small intestine against the ingress of fluids from below

Illoway (American Journal Medical Sciences,) Vol 41, p 168) devised a force pump which he strongly recommends for the purpose of forcing water beyond the ileo caecal valve in case the seat of an intestinal obstruction is located above that point. He the resistance offered by the ileo cæcal valve this method, three of which recovered

Battey (Transactions of the American Medical Association, 1878) asserts the permeability of the entire alimentary canal by enema, and verifies his statement by the recital of his own clinical experience and exinflation of the rectum for diagnostic and therapeutic purposes and proceeds as follows a rectal tube about 6 inches long is carried into the anus and fixed by pressing together the nates, the patient lying on the back A funnel is then connected with the rectal tube by means of rubber tubing For complete inflation of the large intestine 3 drams of bicarbonate of soda and 4½ drams of tartaric acid are separately dissolved in water and portions of either solutions alternately added To prevent sudden overdistension of the bowel it is advised to add the solutions at intervals of several minutes A very important use of this method is to diagnosticate the position of contractions, strictures, or occlusion of the intestine in cases in which it is desirable to operate, and also as showing the pos tion of peritoneal adhesions. The result of his observations has led him to believe that, as a rule, the small intestine is completely closed to the entrance of substances from the colon by the ileo cæcal valve Under the influence of deep chloroform narcosis, however, this resistance is lessened, and fluids can be thrown into the small intestine

In m) paper read at the last International Medical Congress ("An Experimental Contribution to Intestinal Surgery with Special Reference to the Treatment of Intestinal Obstruction") the following experiments appear which illustrate the difficulty in overcoming the resistance of the ileo-cæcal valve by cæcal valve rectal injections of water

Experiment 23 -While completely under the influence of ether an incision was made through the linea alba of a cat, sufficiently long to render the ileo cæcal region readily accessible to light An inclsion was made into the ileum just above the valve

he has found it easy to rupture the bowel after death injected into the rectum and as the execum became well distended it could be readily seen that the valve 2 Should reduction have been accomplished the became tense and appeared like a circular curtain preventing effectually the escape even of a drop of fluid into the ileum. The competency of the valve was only overcome by overdistension of the cæcum which mechanically separated its margins, which allowed a fine stream of water to escape into the ileum cites no unnatural peristaltic action. He administers The insufficiency of the valve was clearly caused by an anysthetic to the point of relaxation before the great distension of the cycum. That such a degree of distension is attained by no inconsiderable danger was proved by this experiment, as the cat was immediately killed, and on examination of the colon and rectum a number of longitudinal rents of the peritoneal coat was found

Experiment 24—In this experiment, a cat was fully narcotised with ether, and while the body was inverted, water was injected per rectum in sufficient quantity, and adequate force by means of an elastic syringe to ascertain the force required to overcome reports four cases of intestinal obstruction treated by disten ion of the cæcum could be clearly mapped out by percussion and palpation before any fluid passed into the ileum As soon as the obstruction at the valve was overcome, the water rushed through the small intestines, and having traversed the entire alimentary canal issued from the mouth periments upon the cadaver Z emssen recommends quart of water was forced through in this manner The animal was killed and the gastro intestinal canal carefully examined for injuries 'Two longitudinal lacerations of the peritoneal surface of the rectum, over an inch in length, were found on opposite sides of the bowel

> Experiment 25—This experiment was conducted in the same manner as the foregoing, only that the cat was not etherized More than a quart of water was forced through the entire alimentary canal from The animal was not killed, and anus to mouth lived for eight days, but suffered during the whole time with symptoms of ileo colitis A post mortem examination was not made in this case, although the symptoms manifested during life leave no doubt that they resulted from injuries inflicted by the injection"

It will thus be seen that in the three cases where fluid was forced beyond the ileo-cæcal valve, in two of them the post mortem revealed multiple lacerations of the peritoneal coat of the large intestines, while the third animal sickened immediately after the experiment was made, and died, from the effects of the injuries inflicted, eight days later These experiments combined with clinical experience leave no further doubt that, practically, the ileo-cæcal valve is not permeable to fluids from below, and that for diagnostic and therapeutic uses it is unsafe and unjustifiable to attempt to force fluids beyond the ileo-We should a priori expect that air and gases on account of their less weight and greater elasticity than water, could be forced along the intestinal canal with less force, and for that reason alone, if for no other, should be preferred to water in cases where it appears desirable to distend the intestine above the ileo cæcal valve The results oband by gently retracting the margins of the wound tained by experimental research in the past speak in the valve could be distinctly seen Water was then favor of rectal inflation by air or gas in all cases

where for diagnostic or therapeutic purposes it becomes necessary to dilate the entire or a portion of the gastro-intestinal canal

I Rectal Insufflation of Air

Experiment 11-Dog, weight 75 pounds animal was profoundly anæsthetized, and by means of an ordinary elastic syringe air was forced through the rectum until the whole abdomen became distended and tympanitic The abdominal cavity was opened in the median line, and the whole intestinal canal was found distended An incision about an inch in length was made about the middle of the small intestines when air escaped, and about one foot of the intestine on either side of the wound col-The remaining portion of the intestines remained unaffected by the incision The animal was killed, and every part of the entire gastro-intestinal canal was carefully examined for injuries cæcal valve remained intact, and no evidences of The ileorupture of any of the coats of the intestines could be detected

Experiment 2 - Dog, weight 12 pounds full anæsthesia the gastro-intestinal canal was inflated in the same manner as in the preceding experiment, and the inflation was carried to the same On opening the abdomen in the median line the distended loops of the intestines protruded from the wound and partial eventration was allowed to take place for the purpose of evamining the intestines for injuries The closest inspection failed to detect evidences of partial or complete rupture of any of the tunics One of the distended coils of the intestine was incised at opposite points on lateral aspect, the incisions being an inch in length Only a limited segment of the bowel on each side of the wounds collapsed, and although the peristalsis was active more remote portions were emptied very The wounds were united transversely for the purpose of making an artificial diverticulum The animal recovered without any untoward symp-

Experiment 3—Dog, weight 13 pounds Animal profoundly etherized, and air inflated as in former The distended colon could be clearly mapped out by percussion before a gurgling sound in jected slowly into the rectum As inflation pro the region of the ileo cæcal valve indicated that the air had entered the ileum After this had occurred the middle of the abdomen became prominent and As soon as the resistance offered by the ileo-cæcal valve had been overcome it required less force in distending the remaining portion of the The inflation was carried to gastro-intestinal canal the extent of distending the stomach, an event which was easily recognized by a considerable prominence in the epigastric region which was tympanitic on percussion At this time an elastic tube was inserted into the stomach, and its free end immersed abdominal distension was materially diminished the inflation was continued the air would escape

through the stomach-tube, showing that a moving current of air existed between the rectal tube and the stomach tube The abdominal distension which remained after the experiment had completely dis appeared after eighteen hours, and the animal never manifested pain or any other symptoms of disease

Experiment 4 - Dog, weight 15 pounds In this experiment inflation was practiced without anæsthesia. The rigidity of the abdominal muscles greatly interfered with the distension of the colon to a requisite degree for overcoming the competency of the ileo cæcal valve The passage of air from the cæcum into the ileum through the ileo-cæcal valve was announced by an audible gurgling sound which was repeated at intervals, as the cæcum, after partial collapse, again was distended by renewing the The insufflation was continued until the inflation stomach became distended by air, which caused vomiting and copious eructations of air remained in perfect health after the inflation

These experiments prove the feasibility of forcing air through the entire alimentary canal from below upwards In not a single experiment could any structural changes be found in the walls of the in testine, and all animals not killed immediately after the experiment recovered The results of these ex periments contrast strongly with those where the same objects were in view by rectal injections with In the latter experiments the force requisite to overcome the ileo cæcal valve invariably produced lacerations of the peritoneal coat of the bowel, which in themselves would constitute a grave source of danger It now became necessary for me to prove that the ileo-cæcal region in man in so far resembled that in the dog that the ileo cæcal valve could be rendered more readily incompetent by inflation of air than by injections of fluids The following two experiments were made for this purpose

Experiment 5 —A young man, 25 years of age, a patient in the Milwaukee Hospital under treatment for a tumor in the epigastric region, was subjected to the experiment He was placed flat on the back On percussion the whole umbilical region was found flat and the abdominal wall retracted No anæsthe With an ordinary elastic syringe air was in gressed the outlines of the entire colon could be clearly seen and accurately mapped out by percussion The cæcal region especially became very prominent The inflation was continued very slowly, and as soon as the air passed through the ileo cæcal valve the hypogastric and umbilical regions began to rise and resonance replaced the former dulness on percussion The arrival of air in the stomach was indicated by distension of the epigastric region, disappearance of the contour of the tumor and resonance on per During the whole process of inflation the patient only complained of a slight pain in the splenic Bubbles of air escaped freely, and the flexure of the colon, and a sensation of fullness in As soon as it became apparent that the abdomen the stomach was distended by air a stomach tube was introduced and its free end was placed under water As the inflation was continued bubbles of air cor tinued to escape On assuming the erect position

¹These experiments were made at the County Hospital, and my thanks are due to Dr M E Connel, Superintendent of the hospital and his assistants, and Dr Wm Mackie of Milwaukee, for valuable assistance

the patient complained of colicky pains in the umbilical region which undoubtedly were caused by an evaggerated peristalsis. The pain, however, soon disappeared, and on the following day he was as well

Experiment 6 - Adult male, suffering from neurasthenia Experiment and result the same as in No 5, only that in this case the pain due to distension of the colon was referred to the ileo-cacal region, and the colicky pain in the umbilical region persisted for a longer time The air was again forced from anus to mouth without causing any in jury whatever and only moderate degree of pain for a short time

The foregoing experiments demonstrate conclusively that in the human subject by a moderate degree of force, short of producing any injury of the tunics of the intestines, air can be forced along the entire alimentary tract, and that this procedure can be resorted to with perfect safety for diagnostic and therapeutic purposes in all cases where the tissues of the intestinal wall have not suffered too much loss of resistance from antecedent pathological changes

2 -Inflation of Alimentary Canal through Stomach Tube

We should naturally expect that the alimentary canal could be inflated with more ease and with a less degree of force by following the normal peris taltic wave That this is not the case will be seen from the following experiment

Experiment 7 - Dog, weight 40 lbs (18 kilo-After complete anæsthesia was effected a flexible rubber tube was introduced into the stomach and the free end of the tube connected with a four gallon rubber balloon, containing hydrogen gas, by means of a rubber tube Between the gas reservoir and the stomach-tube a manometer was interposed, registering accurately the force used in making the grams) inflation. The inflation was made by compressing was isolated as a second compressing was isolated as a second compressing was isolated as a second compressing was included as a second compressing was included as a second compression of the seco the rubber bag A tube was introduced into the rectum to facilitate the escape of gas that might reach this portion of the intestinal tract Under al pressure of one pound and a half the stomach dilated rapidly, and later the entire abdomen became distended and resonant on percussion, but no gas escaped per rectum When the pressure was increased the abdomen took place, as the gas escaped along the side of the stomach tube At this time respiration became greatly embarrassed, but was relieved on allowing gas to escape through the stomach-tube On compressing the abdomen firmly the distension disappeared almost completely, at the same time a large quantity of gas continued to escape through the stomach tube Inflation was renewed, and under a pressure of one pound and a half, the abdomen again became uniformly distended When the pressbelow the umbilicus, occupying almost the entire burned with a steady blue flame abdominal cavity The upper half of the small in- was followed by no unfavorable symptoms

testines was distended, numerous points of sharp flexions were found among the different distended coils The distended stomach had evidently encroached so much upon the abdominal space as to render the greater part of the intestinal canal impermeable by pressure

Experiment 8 -Dog, weight 15 lbs animal was placed fully under the influence of ether the abdomen was opened and the cæcum and lower portion of ileum drawn forward into the wound, and a large needle of an aspirator inserted into the ileum just above the ileo-cæcal valve Through a rubber tube hydrogen gas was forced into the stomach Under one pound (5 hectograms) of pressure the stomach and upper portion of the intestines dilated When the force was increased the gas rereadily turned through the esophagus along the sides of the stomach tube

Experiment 9—Dog, medium size This animal was killed to ascertain the results of an experiment made for another purpose Rubber balloon containing hydrogen gas and manometer were used for making the inflation The tube through which the inflation was made was tied in the œsophagus domen was distended enormously, and on increasing the pressure to three and three fourths pounds (11/2 kilograms), still no gas escaped through the rectal tube The abdomen was then opened, when the stomach was found so enormously distended that it filled almost the entire abdominal cavity one fourth of the length of the small intestines was found distended, and among the distended loops numerous acute flexions could be seen. After the abdomen was opened, under long and continuous distension, the peritoneal covering of the stomach gave way, when the manometer registered only one pound and a half of pressure

Experiment 10 - Dog, weight 18 lbs (8 kilo-Immediately after death the œsophagus was isolated and the tube of the hydrogen gas inflator securely tied in, and a glass tube was inserted into the rectum Under a pressure of two and threefourths pounds (12 kilograms) registered by the manometer the gas first dilated the stomach and then passed along the intestines until it escaped in a steady stream through the rectal tube, where it was ignited On opening the abdomen the stomach was to two pounds (r kilogram) no further distension of found greatly distended, while the distension of the intestines was a great deal less marked the tunics of the stomach or intestines were injured

Experiment 11 -Dog, weight 20 lbs (9 kilograms) Animal etherized and a flexible tube connected with the gas inflator introduced into the stomach and a glass tube into the rectum flation the stomach became gradually distended, and when the pressure had reached one pound and a half (6 kilogram) the dog vomited and a good deal of gas escaped at the same time Inflation was again ure was increased to two pounds (r kilogram) the commenced and was followed by uniform distension dog suddenly died, and all efforts at resuscitation and tympanitis over the entire abdomen, when the On opening the abdomen the stomach was pressure reached two pounds and a half (1 kilogram) found enormously distended, reaching three inches the gas escaped from the rectum, and when ignited The experiment

Experiment 12 -Dog, weight 12 lbs (51/2 kilo Under the influence of ether inflation with hydrogen gas in the same manner as in last experi-As soon as the stomach became well distended, and the manometer registered one pound and a half of pressure, vomiting occurred, attended by a free escape of gas, which was followed by collapse of the distended epigastric region flation was again resumed, it was noted that any increase of pressure over one pound (45 kilogram) was followed by regurgitation of gas, and on this account it was found impossible to inflate the lower portion of the intestinal tract No unfavorable symptoms followed the experiment

Experiment 13—Dog, weight 28 lbs (121/2 kilo-Under the influence of ether inflation of hy drogen gas through stomach tube As soon as the pressure was increased to more than 1 lb (45 kilogram) the gas escaped along the sides of the tube through the esophagus, consequently only the upper portion of the abdomen could be distended, and the inflation evidently did not extend much beyond the The experiment was repeated several times with the same result The animal remained

perfectly well after the experiment

Experiment 14 —Dog, weight 12 lbs (5 kilograms) Inflation of stomach by hydrogen gas under full an-The effect of the inflation was the same as in the last experiment, only the stomach and upper portion of the small intestines could be distended and further inflation was impossible, as the gas escaped from the stomach as soon as the pressure exceeded 1 lb (45 kilogram) A large needle of an aspirator was pushed through the linea alba into the stomach, and the gas which escaped through it on being lighted burned with the characteristic blue After the needle was withdrawn the inflation was continued to ascertain if the puncture in the stomach would allow the escape of gas into the peritoneal cavity The inflation was continued until the entire abdomen was distended by the gas That the distension and tympanites was due to the presence of gas in the peritoneal cavity became evident, as it remained after the stomach had been emptied of its gas, and on percussion it was ascertained that the entire liver dulness had disappeared The dog recovered without symptoms of peritonitis or any other ill-effects from the experiment

These experiments demonstrate conclusively that it is more difficult to inflate the alimentary canal from above downwards than from below upwards, as in the living animal I succeeded only in one instance in forcing hydrogen gas from mouth to anus, while in toneal coat of the stomach only effected distension grams) In this experiment the abdomen was opened of the stomach and upper portion of the stomach and upper portio of the stomach and upper portion of intestinal canal It is evident that great distension of the stomach constitutes an important factor in causing or aggravating intestinal obstruction, as it effects compression which causes impermeability of the intestines, or aggravates conditions arising from an antecedent partial permeability by producing sharp flexions among the dis surgical purposes the stomach can be readily inflated beyond the ileo cæcal valve in dogs under very low

almost to any extent through a stomach tube, and when it becomes necessary to ascertain the presence of a visceral wound or perforation of this organ, this method of inflation may be resorted to with advan

3 Experiments to Determine the Degree of Force which is Necessary to Overcome the Resistance offered by the Ileo cacal Valve

Accurate experiments to determine the force required to render the ileo cæcal valve incompetent by insufflation of air or gas have so far not been made, and as it is exceedingly important to obtain some accurate information on this subject, the following experiments were made In all experiments air or hydrogen gas was used The inflation was made with a rubber balloon The pressure was estimated either with a mercury gauge, or with a manometer used by gas fitters and plumbers The manometer or mercury gauge was connected by means of rubber tubing with the rectal tube on one side and the rubber balloon on the other The rubber balloon in which the hydrogen gas was collected held 4 gallons, and numerous experiments showed that when the gas was forced through the opening of a stopcock, the lumen of which was about the size of a knitting needle, a compression equal to 200 lbs (90 kilograms) would never register more than 3 lbs, (13 kilograms) of pressure

In the living subject the escape of air or gas from the rectum was prevented by an assistant pressing the margins of the anus firmly against the rectal tube

Experiment 15 - Dog, weight 35 lbs (16 kilo-Immediately after death the lower portion of the rectum was isolated and the rectal tube inserted and fixed in its place by tying a string firmly around the rectum The abdomen was opened and the intestines left in situ. The ileum was cut transversely 6 inches above the ileo cæcal valve and a glass tube inserted into the distal end, which was Hydrogen gas was inflated from a rub also tied in ber balloon Under a pressure of 3/4-lb (3 kilogram) the cæcum was dilated, and a moment later the gas escaped from the glass tube and was ignited, the flame remained steady under a pressure of from 1/2to 3/4-lb (2 to 3 kilogram)

Experiment 16 -Dog, weight 20 lbs (9 kilograms) Same as in the preceding experiment, only that the resistance of the ileo cæcal valve was overcome under a pressure of 1/2-lb (2 kilogram) tension of colon and cæcum was moderate, and signs of injury to its tunics could not be found in either

experiment Experiment 17 - Dog, weight 23 lbs (10 kiloimmediately after death, and a large hypodcimic needle inserted into the ileum a short distance above the ileo-cæcal valve before the inflation of hydrogen A pressure of 3/4 lb (3 kilogram) was sufficient to force the gas through the ileo crecal valve and through the needle, the valve remained open under a steady pressure of ½ lb (2 kilogram) Having determined that air and gas can be forced

pressure, varying from 1/2- to 3/4-lb, I proceeded to test the degree of resistance of the ileo crecal valve

in the human subject

Experiment 18 —Strong, healthy young man The subject was placed flat upon his back and hydrogen At first the gas was inflated from a rubber balloon gas was forced in very slowly under a pressure of 11/2 lb (6 kilogram), which distended the colon visibly as far as the crecum As the distension appeared to remain the same the pressure was increased to 2 lbs manometer receded to 1 lb (4 kilogram), and the pressure never exceeded one pound and a half (6 umbilical region became prominent and resonant, showing conclusively that the ileo-crecal valve had been passed and the small intestines were filling rapidly with gas As soon as the whole abdomen had become distended and tympanitic the manometer again registered 11/2 lb (6 kilogram) of pressure, and remained at this figure for some time after further inflation was discontinued by turning the stopcock

Experiment 19 -Young man, in good health Experiment conducted in the same manner as in the foregoing After the colon and cæcum had been well dilated the manometer registered 21/4 lbs (4 kilogram), and the umbilical region became prominent and resonant. As the inflation advanced the average pressure was 1 1/4 lb (8 kilogram), and twice it was increased to 21/2 lbs (1 4 kilogram), when the patient complained of pain in the umbilical region As soon as the stopcock was turned the pressure sank to 3/4-lb (3 kilogram) These two experiments prove that in a normal condition the ileo-cæcal valve in a healthy adult person is overcome by rectal infla tion under a pressure of 11/2 to 21/4 lbs (6 to 12 kilogram) This amount of pressure is not sufficient to mjure the tunics of a healthy intestine, and in both instances the subjects of the experiments complained but little of the immediate or remote effects of the experiment As the result of numerous observations, I can state that when the inflation is made slowly and continuously there is less danger of injuring the intestines than when the inflation is made rapidly, or with interruptions Slow and gradual distension of the cæcum is best adapted to overcome the competency of the ileo cæcal valve, by effecting diastasis of the margins of the valve A rubber balloon holding from 2 to 4 gallons (10 to 20 litres) recommends itself as the most efficient and safest instrument for making rectal insufflation for therapeutic or diagnostic pur-

The following experiments were made to determine

4 The Amount of Pressure Necessary to Force Hy drogen Gas through the Entire Alimentary Canal by Rectal Inflation

Experiment 20 - Dog, weight 35 pounds (16 kilograms) Immediately after death rectal inflation of hydrogen gas was made, and a pressure of one pound (4 kilograms) sufficed to distend the entire abdominal cavity, and when a tube was introduced into the stomach and a burning taper applied to its end a blue flame at once appeared and continued as long as the inflation was kept up under the same pressure

Experiment 21 —Dog, weight 12 pounds (5 kilo-Under ether narcosis rectal inflation of grams) hydrogen gas from rubber balloon The ileo-cæcal valve offered very little resistance, and as soon as the manometer registered one pound and a half (6 kilogram) of pressure the gas escaped through the stomach tube which had been introduced previously, and on applying a lighted taper it burned with a continuous flame as long as the inflation was continued

Experiment 22 -Dog, weight 20 pounds (9 kilo-(9 kilogram), when suddenly the indicator of the grams) Experiment and result same as in last, the

kilogram)

Experiment 23 —Dog, weight 19 pounds (9 kilo-In this experiment no an esthetic was used, and in consequence the pressure had to be increased to three pounds (13 kilograms) before the gas escaped through the stomach tube On account of the violent contractions of the abdominal muscles the escape of gas was intermittent, the flame being frequently extinguished by an absence of the gas

Experiment 24 -Dog, weight 21 pounds (10 kilograms) The animal being completely under the influence of ether the abdomen was opened in the median line, and the ileo cæcal region made accessible to sight Hydrogen gas was inflated per rectum, and under a pressure of three quarters of a pound (3 kilogram) readily passed the ileo-cæcal valve, and under one pound of pressure it ascended the intestinal canal, and in a few seconds reached the A tube was introduced into the stomach, stomach and as the gas escaped it was ignited and burned with a steady flame

Experiment 25 - Dog, weight 18 pounds (8 kilo-Rectal insuffiation of hydrogen gas, the dog being fully under the influence of an anæsthetic The colon and cæcum were only slightly distended when the gas under one quarter of a pound (I kilogram) of pressure passed the ileo-cæcal valve Under one pound (4 kilogram) of pressure the abdomen became uniformly distended and tympanitic, and when a tube was introduced into the stomach the escaping gas was ignited and burned with a steady flame as long as the pressure was continued

Experiment 26 - Dog, weight 20 pounds (9 kilo-Animal etherized, and when completely relaxed hydrogen gas was inflated per rectum, and passed the ileo cæcal valve under a pressure of half a pound (2 kilograms) The stomach became distended under a pressure of one pound and a half (6 kilogram), and on the introduction of a tube the escaping gas was ignited and burned with a continuous flame as long as the manometer registered half a pound (4 kilogram) of pressure In all animals where the insufflation was not complicated by abdominal section no upleasant symptoms followed the All of the animals recovered as experiments rapidly as after an ordinary ether narcosis the experiments the pressure fell rapidly after the ileo cæcal valve had been opened, but the pressure had again to be increased before the gas reached the s omach It usually required one-half to one pound more pressure to force gas through the entire alimentary canal than when it was forced only through 774

the ileo-caecal valve Whenever it becomes desirable to conduct the hydrogen gas a considerable distance along the intestines, or through the entire alimentary canal, it is exceedingly important to proceed slowly with the inflation, as under slow distension on half a pound (2 kilogram) of pressure will accomplish in time a greater degree of distension than four times this amount of pressure if the force is applied quickly, and only for a short time, and is attended by much less risk of injury to the coats of the rectal insufflation of hydrogen gas made under a pressure of one-quarter of a pound, if made very slowly, the abdominal walls being completely relaxed by an anæsthetic, will not only overcome the resistance offered by the ileo cæcal valve, but will prove sufficient to force the gas through the whole length of the alimentary canal I have now sufficiently demonstrated the permeability of the ileocæcal valve and the entire alimentary canal in animals and man to rectal insufflation of air and gas, and I shall now endeavor to establish the safety of. this procedure as a diagnostic and therapeutic measure by showing

II THE RESISTANCE OF DIFFERENT FORTIONS OF THE GASTRO INTESTINAL CANAL TO DIASTALTIC FORCE

a Stomach.

Experiment 27—Large, healthy, adult dog Experiment made immediately after death Stomach in situ. Œsophagus tied and distension made with a force pump from pyloric orifice, the organ being rapidly dilated with air. When the manometer registered eight and one-half pounds (3 8 kilograms) of pressure the stomach was distended at least eight times its normal size, when a rent in the peritoneal covering an inch and a half in length parallel to, and near the omental attachment occurred

Experiment 28—Middle aged man, died of sepsis. The whole gastro-intestinal canal showed marked evidences of septic gastro-entero-colitis, the mucous membrane being softened, very vascular, and dotted with numerous hæmorrhagic infarcts. Organ in situ inflated with air in the same manner as in last experiment. Longitudinal rupture of peritoneal coat along anterior surface under two and one-half pounds of pressure (1 i kilogram), and when it was increased to three pounds (1 3 kilograms) the whole thickness of the wall at the lesser curvature ruptured

b Small Intestines

Experiment 29—Subject same as in experiment 28 Lower portion of ileum under five pounds (2 2 kilograms) of pressure became emphysematous along mesenteric attachment, and ruptured completely as soon as the manometer registered five and three-fourths (2 3 kilograms) pounds of pressure

Experiment 30—Dog, weight 20 fbs (9 kilograms) kilograms) of pressure to force an time of the ileum, with mesenteric attachment intact, was gradually distended and remained intact until a pressure of ten pounds (2 5 kilograms) was reached, when air espounds (2 5 kilograms) was reached, when air espounds (2 5 kilograms) was reached, when air espounds (3 6 to 4 5 kilograms) to force of from eight to ten pounds (3 6 to 4 5 kilograms) to force of from eight to ten pounds (3 6 to 4 5 kilograms)

tery, showing that minute ruptures at numerous points had taken place. When the distension had reached its maximum the segment of bowel inflated was elongated twice its normal length.

Experiment 31—Upper portion of ileum of same animal when distended to its utmost gave way under a pressure of eight pounds (3 6 kilograms), the peritoneal coat on convex side rupturing to the extent of 2 inches (51 mm) parallel to the axis of the bowel

Lam quite convinced that in the dog lation of hydrogen gas made under a one-quarter of a pound, if made very abdominal walls being completely reamesthetic, will not only overcome the

c. Color

Experiment 33—Subject same as experiments 28 and 29 Experiment was made twenty-four hours after death Colon and cæcum apparently very much softened and mucous membrane in a state of inflammation One foot (3 d m) of the transverse colon isolated and gradually distended when the pentoneal coat along the border of one of the longitudinal bands ruptured under a pressure of two pounds and a half (1 kilogram). The peritoneal laceration became very extensive before the remaining tunics ruptured under a pressure of four pounds (18 kilograms)

Experiment 34—Dog, weight 18 lbs (8 kilograms) Immediately after death the ileum was tied just above the cæcum and the inflation made per rectum. Air was pumped in gradually with a force-pump and when the pressure reached ten pounds and a half (47 kilograms) air escaped between the peritoneal layers of the meso colon, at this stage the longitudinal distension of the bowel exceeded twice its normal length

Experiment 35—Dog, weight 23 lbs (10 kilograms)

Experiment the same as the preceding Air was pumped in rapidly until the mercury gauge registered ten and a half pounds (47 kilograms) of pressure, when the sigmoid flexure on its free surface gave way with a loud report, the rent being about one inch and a half (38 mm) in length

Experiment 36—Dog, weight 18 ibs (7 kilograms) Entire colon distended by rectal inflation of air, the ileum being tied just above the ileo cæcal valve Under a pressure of six pounds (2 7 kilograms) the peritoneum ruptured in a longitudinal direction, opposite the meso-colon, and the remaining tunics gave way a little later under the same pressure

These experiments are of the greatest importance in showing that the pressure which was found necessary to apply in rupturing a healthy intestine was greatly in excess of that which is required to force air through the ileo-cæcal valve, or even the whole length of the alimentary canal. It only requires from one-quarter of a pound to a pound and a half (i to 7 kilograms) of pressure to force air through the ileo-cæcal valve, and from half a pound to two pounds and a half (2 to 7 kilograms) to force it from anus to mouth, while even the weakest portion of the 32stro-intestinal canal effectually resisted a distending force of from eight to ten pounds (3 6 to 4 5 kilograms) force of from eight to ten pounds (3 6 to 4 5 kilograms)

grams) The experiments on the human cadaver, where the resisting power of the gastro-intestinal circumstances it would have been safe to resort to inflation, as the pressure required to rupture the colon or small intestines exceeded that which has been found adequate to force air or gas beyond the ileo-excal valve, or even the entire length of the ali-When an intestine is distended to mentary canal its utmost capacity slowly by inflation of air or gas, and the pressure is maintained uninterruptedly, rupture occurs at one of two points, either a longitudinal convex surface of the bowel opposite the mesentence attachment, or minute ruptures on the mesentence side give rise to extravasation of air or gas between the two serous layers of the mesentery, in either case, if the pressure is increased, complete rupture takes place at the point where the laceration first com-

III DISTENSION OF GASTRO-INTESTINAL CANAL BY RECTAL INSUFFLATION OF HYDROGEN GAS

This part of the paper contains an account of the experiments which were made preliminary to the practical application of the hydrogen gas test as a diagnostic measure in penetrating wounds of the abdomen, and furnish only so many more demonstrations of the permeability of the ileo-cæcal valve and the entire alimentary canal to rectal inflation of hydrogen

Experiment 37 -Dog, weight 15 lbs (6 kilograms) Under ether anæsthesia hydrogen gas from rubber balloon was slowly forced into the rectum until the entire anterior abdominal wall had become uniformly distended and tympanitic, when the distended stomach was punctured with a large needle of an aspirator and gas escaped in a steady stream, and when ignited burned with a continuous flame After a considerable portion of gas had been evacuated in this manner the upper abdominal region receded and the flame was extinguished The animal recovered without any untoward symptoms

Experiment 38 -Dog, weight 17 lbs (7 kilograms) Without anæsthesia hydrogen gas was inflated per rectum until it escaped through a tube which had been introduced into the stomach As it escaped from the stomach tube it was ignited and burned with a large blue flame The abdominal muscles were so rigid that distension was never well marked, and the inflation required a good deal more force than in animals where muscular rigidity has been overcome by an an esthetic The dog remained perfectly well after the experiment and in a few hours the remaining tympanites had disappeared

Experiment 39 - Dog, (weight 35. lbs (15 kilograms) No an esthetics used On account of rigidity of abdominal muscles it required persistent efforts to force hydrogen gas from rubber balloon per rectum through the whole alimentary canal As soon as the stomach had become distended by the gas the animal vomited, at the same time gas escaped by repeated emctations The animal manifested no signs of suffering after the experiment

Experiment 40 -Dog, weight 27 lbs (12 kilograms) Under anæsthesia hydrogen gas was inflated canal to diastalic force was greatly reduced by ante-per rectum until it escaped through tube which had mortem pathological changes, show that under such been introduced into the stomach, a lighted taper was applied to the free end of the tube and the gas ignited and burned with the characteristic blue flame

> Experiment 41 - Large Newfoundland dog Under an esthesia a duodenostomy was made, and hydrogen gas injected per rectum and ignited as it escaped from a rubber tube which had been inserted into the distal portion of the bowel through the

Experiment 42 —Adult male, abdominal organs laceration of the peritoneal coat takes place on the healthy, no anæsthesia. Inflation of hydrogen gas per rectum The gas was stored in a four-gallon (9 litres) rubber balloon and was forced into the rectum by compression As the distension progressed the colon could be distinctly mapped out from sigmoid flexure to execum by inspection and percussion soon as the cæcum had become visibly prominent a stethoscope was applied over the ileo-cæcal region, and as the valve became incompetent by overdistension of cæcum a distinct gurgling sound could be heard as the gas entered the ileum Whenever inflation was arrested the gurgling sound disappeared and was heard again whenever the ileo-cæcal valve was opened by renewed inflation

Distension of the small intestines was attended by resonance and prominence of umbilical and hypogastric regions The incompetency of the ileo-cæcal valve was invariably announced by a reduction in the pressure The patient complained of a sensation of distension in the umbilical region and intermittent colicky pains which, however, disappeared completely after a few hours The pain appeared to be less severe than after similar experiments with inflation of air

Experiment 43—Young man in comparatively good health Inflation same as in preceding experiment Ausculation over ileo-cæcal valve revealed the same sounds as the gas escaped from the colon into The sound seemed to vary somewhat according to the size of the opening in the valve and the force used in making the inflation, and always disappeared as the valve closed after suspension of The colicky pains subsided as the small intestines emptied themselves of their new contents The assistant who compressed the rubber balloon was always able to announce the beginning of the incompetency of the ileo-cæcal valve by experiencing a sudden diminution in the pressure

Experiment 44 —Adult male, suffering from gastric catarrh Hydrogen gas inflation per rectum to extent of causing great distension of abdomen which caused the hepatic dulness to ascend at least two inches Auscultatory signs the same Sharp colicky pains in the umbilical region were relieved by a free escape of gas through rectum

Experiment 45—Hysterical female Abdomen flat and dull on percussion from umbilicus to pubis, no resonance over sigmoid flexure Rectal inflation with hydrogen gas Compression of rubber balloon corresponding to only one fourth pound (1 kilogram) of pressure readily dilated the whole colon, its course

being indicated by a distinct prominence and tympan-tended by a well-marked blowing, gurgling sound tic resonance from sigmoid flexure to cæcum Under The patient felt the entrance of gas into the ileum the same pressure the gas escaped with little or no resistance through the ileo-caecal valve from the colon into the ileum, the occurrence being attended by the characteristic auscultatory sounds and followed by distension and resonance of space from umbilious to nent and tympanitic Only 2 litres of gas were used pubis Amount of gas inflated about four litres The in this experiment patient complained of some pain in the region of the splenic flexure of the colon during the distension of health the colon, and later of slight intermittent pain in the region of the umbilious

Experiment 46—Middle-aged woman, suffering from retroversion of the uterus Abdomen flaccid and dull on percussion in the median line from umbilicus to pubis Rectum distended with hardened Hydrogen gas inflated in the usual manner The mercury gauge registered two and a half pounds (1 kilogram) of pressure before the gas reached the sigmoid flexure, after this it fell to one pound (4 kilogram) and the inflation progressed without any further resistance As soon as the gas passed through the ileo cæcal valve the pressure fell to three-quarters of a pound (3 kilogram) and remained so during the inflation of the small intestines, slight variations marking the opening and closing of the ileo cæcal valve As the umbilical and hypogastric regions became prominent and tympanitic the patient complained of a griping pain About eight litres of gas were injected A few hours after the experiment all symptoms had disappeared

Experiment 47 — Female recently operated on for laceration of perineum Rectum empty Abdomen flaccid, umbilical, hypogastric, and right iliac regions dull on percussion The inflation was made very slowly and the pressure never exceeded 1 lb (4 kilo-As the large intestine became distended the transverse colon came plainly into view On auscultation over the ileo cæcal valve the escape of gas into the ileum was marked by a blowing sound, which in pitch was increased or diminished by the degree of pressure As the lower portion of the small intestines became distended the lower part of the abdomen became prominent and tympanitic, and the patient complained of colicky pains About 3 litres of gas were inflated In half an hour the patient appeared as well as before inflation

Experiment 48 — Middle aged physician suffering This was the second attack, and the acute symptoms had subsided Over the cæcum a circumscribed area of dulness and tenderness palpation it appeared as though the swelling were adherent to the anterior abdominal wall The area of dulness was outlined externally by pencil marks before inflation was commenced As the colon became distended under a pressure of 1/4-lb (1 kilogram), the circumscribed, indurated region became more prominent, imparting to the palpating fingers the feeling of hardness, but on percussion it was resindurated wall of the cæcum had been lifted forwards of ½ lb (4 kilogram) Nearly 6 litres of gas were by the pressure of the gas Under the same pressure inflated per rectum. The distension of the colon inflated per rectum. the gas escaped in a continuous stream into the ileum, caused simply a feeling of distension along its course, its passage through the ileo cæcal valve being at- but as soon as the gas escaped into the ileum colicky

distinctly and complained soon after of a slight colicky pain in the umbilical region The space between umbilicus and pubis, which before inflation was com pletely dull on percussion, now became more promi-

Experiment 49 — Young physician in perfect Region between umbilicus and pubis perfectly dull on percussion, also left iliac fossa. Inflation of 4 litres of hydrogen gas under 1/3 lb (15 kilogram) pressure The outlines of the distended colon could be clearly seen and marked out by percussion before the gas escaped into the small intes-The passage of gas through the ileo cæcal valve was again attended by a well marked gurgling sound, after which the entire abdomen became promment and tympanitic The patient felt a sensation of distension during the inflation of the colon, and as the small intestines became distended complained of griping pains, gas escaped freely by eructations and per rectum, which soon relieved the colicky pains in the umbilical regian

Experiment 50 — Medical student in robust health Region from umbilious to pubis flat on percussion, while the course of the entire colon was tympanitic Rectal inflation with hydrogen gas As the resistance of the ileo-cæcal valve was overcome the mercury gauge registered 1/2-lb (4 kilogram) of pressure The passage of gas through the ileo-cæcal valve was attended by a gurgling sound which was heard at some distance by a number of persons present in the Later a continuous blowing (almost amphorroom 1c) sound could be heard over the ileo cæcal valve The subject of the experiment was conscious of the passage of gas from colon into ileum, and soon after complained of a colicky pain which he referred to The whole abdomen became the umbilical region uniformly distended and tympanitic on percussion, and the distress caused by the great distension was only relieved by a free escape of gas by eructations and through the rectum Four litres of gas were used in this experiment

Experiment 51—Young physician in good health Rectal inflation of 4 litres of hydrogen gas under a pressure of only 1/3 lb (15 kilogram) Distension of colon well-marked previous to escape of gas through the ileo cæcal valve As soon as the gas entered the ileum the middle and lower portion of the abdomen became distended and tympanitic The inflation was continued until the stomach became distended amd gas escaped by eructation The subject of the experiment complained of quite severe colicky pains as long as the small intestines remained distended by gas

Experiment 52 - The writer of this paper, being desirous of experiencing himself the sensations which would be caused by inflation of hydrogen gas, sub mitted himself to experimentation under a pressure pains were experienced, which increased as insuffiation advanced, and only ceased after all the gas had escaped, which was the case only after an hour and a half When the intestines and the stomach had become fully distended the feeling of distension was distressing, and was attended by a sensation of faintness which caused a profuse clammy perspiration A great deal of the gas escaped by eructation, which was followed by great relief The colicky pains attending inflation of the small intestines by air or gas are evidently caused by increased peristaltic action of the bowels in their attempt to expel their contents, as it always assumed an intermittent type and subsided promptly after the escape of the gas

In none of these experiments did the pressure exceed 1 lb (4 kilogram) in overcoming the resistance offered by the ileo-cæcal valve, and often a steady, long-continued pressure of 1/4- or 1/3 lb (1 to 15 kilogram) sufficed Every time the ileo caecal valve was rendered incompetent by distension of the cæcum the pressure was promptly diminished owing to the escape of gas from the colon into the ileum the experiment where the inflation was made in a walls of the cæcum, when distended during the inflation, were better adapted in effecting incompetency of the valve These experiments also furnish strong proof of the fact that inflation, to be safe and effective, should be done very slowly under a low, steady pressure, continued only for a short time, and is at tended by no risks whatever of rupturing a healthy intestine and, when cautiously practiced, can be resorted to even in cases where the resisting power of pathological processes

As I was searching for an innocuous, non-irritating canal, would escape into the peritoneal cavity in inch on trying hydrogen gas, it became necessary to study experimentally the effect of this gas on the different tissues of the living body The numerous inflation experiments on man and dogs have demonstrated the safety of pure hydrogen gas when employed in this manner, as not in a single instance were any immediate or remote toxic symptoms observed which could be referred to absorption of the gas, hence we have the assurance that the inflation of a large quantity of hydrogen gas is unattended by any risk whatever as far as intoxication is concerned The following experiments also show the innocuity and non irritating qualities of hydrogen gas when brought in contact with the most susceptible tissues to inflammatory reaction in the living body, at the same time they also show that hydrogen gas is removed by absorption in a comparatively short time when injected into serous cavities or into the subcutaneous connective tissue

(To be concluded)

THE APPENDIX VERMIFORMIS, ITS FUNCTIONS, PATHOLOGICAL CHANGES AND TREATMENT

Read in the Section on Sirgery at the Thirty ninth Annual Meeting of the American Medical Association, May 1888

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Preliminary to a consideration of the function pertaining to any organism, it is requisite to understand its structure, or in other words, the physiology

of a part depends upon its anatomy

The presence of the appendix vermiformis in man and in some of the higher order of apes, while absent in most quadrupeds and other inferior animals, may perhaps lead the followers of Darwin to the conclusion that the missing link is to be sought in this development, but I have no inclination to enter into the abstruse question of evolution, and only regret that we are precluded from receiving any information by a study of comparative anatomy in respect In to this unique appendage If the dog and cat were supplied with this structure, the facility for making case of typhlius the ileo cæcal valve offered no re-experiments upon them might enhance very much sistance, and the gas escaped freely into the ileum, our knowledge of its normal and abnormal condithe valve in all probability had been rendered par- tions, whether idiopathic or traumatic, but the door tially or completely incompetent during the course is shut to all such investigation, and a human subof the local inflammation or the indurated, thickened ject does not fully avail for satisfactory data in regard to the structure of the appendix vermiformis and its office

In its general outline it is subject to great variation of size and position, being found in different subjects from three to six inches in length, and lying diversely in its relations to the cæcum Its diameter admits of considerable changes owing to the various contents of the canal, whether gaseous, mu-This tube is of the same size from cus or serous the intestinal wall has been diminished by antecedent its attachment to the lower walls of the cæcum to its termination in a blind pouch at its free extremity When empty or only occupied with mucus, its gas which, when inflated into the gastro-intestinal diameter is ordinarily about one-fourth of an There is usually a mesenteric attachment to case a wound or perforation existed, and had decided the wall of the cæcum and this duplicature of the peritoneum invests its entire length, while a muscular layer is found between this and the mucous membrane which lines it The opening into the cæcal cavity has a valvular arrangement of the mucous membrane which is capable of closing the orifice, and doubtless prevents the entrance of foreign bodies ordinarily into this blind pouch. It becomes, however, dilated under certain circumstances so as to admit of the passage of small solid masses through this orifice, and they became arrested in the tube proving a source of disturbance In view of that fact, this structure has been regarded by some writers as a trap, which is very prone to cause the obstructions of its canal by foreign bodies, as when once introduced there is perhaps a kind of constriction of the onfice which interferes with their escape That there exists in the middle coat of the appendix, longitudinal and circular, muscular fibres, which by their contraction and relaxation, alternately, provide for a serous or mucus exudation, and after certain modifications in it, promote its expulsion, is very

evident from observation of the histological ele- to recognize this hypothesis on the same basis that ments of its organization Whether any considerable proportion of the fæcal matter enters the cavity of the appendix has not been determined, and it seems most probable that the quantity may be small in view of the relative size of this diminutive tubular sac and the capacious cæcal pouch which receives the contents of the ileum through the ileo-cæcal The capacity for distension being limited in extent precludes the view, that the cavity of the appendix, may serve as a diverticulum in cases of undue accumulation of fæcal matter in the colon

An opportunity has been afforded to me recently of noting that obstruction of the descending colon from an organic stricture, inducing such distension of its walls by the retained contents as to result in perforation and death, did not materially affect the size of the appendix vermiformis It cannot, therefore, be regarded as a safety valve for the cæcum, but rather as a loop-hole for the entrance of matters prejudicial to it, and the adjacent structure, and may be appropriately regarded as a danger signal to warn the organism of approaching trouble

The location of the orifice of the vermiform appendix at the most dependent part of the caput coli while the entrance of the ileum through the ileocæcal valve is above and at the inner side, affording ing the absence of any signs of degeneration to the a direct passage to the contents of the alimentary canal into the cæcum as a receptacle, would seem to favor the conclusion that some change is there brought about by the contact of fæcal matter with the emanations from the appendix

Its mucous lining, according to Gray, is furnished with a large number of solitary glands, and Satterthwaite states in his "Manual of Histology" that "in the vermiform appendix we find the collection of solitary lymph follicles so closely placed that the space left between adjoining glands does not equal in diameter that of these structures themselves

On the other hand we learn from Quain, that, "in man the chief function of the cæcum is absorption, as is shown by the great number of lymphatics in its walls," while Laudois tells us that, "the contents assume the character of fæces and become formed in the lower part of the great intestine"

The high authority, Littre, warrants the assertion that, "it is in the cæcum, the residue of the alimentary substances assumes all the characteristics of fæcal matter" In the absence of other explanation of the peculiar odor imparted to the contents of the colon from this point forward, it is fair to infer that this modification comes from the influence of the appendix vermiformis, either by some chemical or vital process

ing without material for vivisections in the absence light upon the function of this development which of wombats and apes, while the opportunities for characterizes a higher order of animal creation. The are few, upon the principle of exclusion, it is expected that this theory of the function of the appenince in the animal economy has not heretofore been ing us to a satisfactory conclusion. If it can be pointed out by physiologists, I would appeal to them made to appear that the native population of our

the owner of a certain historic dog in the backwoods of North Carolina claimed that he was a good possum dog-that he had tried him thoroughly for every other species of game without discovering any hunting qualities, and hence he concluded that he ought to be good to catch the opossum So of the appendix for getting up a stink

Reasoning upon the general principle that all the organs of the human body are fitted for the discharge of useful purposes in the animal organism, we are not warranted in concluding that the appendix vermiformis is an exception to this rule of the fitness of things, and it behooves us to investigate seriously its function We should satisfy ourselves as to its relations to the digestive and excrementitious processes, with its position as a sentinel at the gate-way, without participating, so far as known thus far, in the work of alimentation or defecation The antiseptic property of sulphurous gases is well known, and the presence of sulphuretted hydrogen in the colon cannot be accounted for by any process of decomposition developed in its contents, as the cases of arrest of fæcal matter with or without impaction, are not attended with such results as would ensue from such a process We are therefore warranted in attributpresence of an antiseptic element, which is developed in the vermiform appendage and intermingled with the fæcal mass in the cæcum which serves as a reservoir, where this process may be undergone as the residue of the alimentary substances is poured The effectual security out of the small intestine against regurgitation by the structure of the ileocæcal valve and the barrier afforded by the valvular opening of the appendix to the entrance of fæcal matter into its cavity, while gaseous emanations or its natural secretion of mucus may pass out into the caput coli, favor the view that an important office belongs to the appendix vermiformis It doubtless preserves the contents of the alimentary canal from decomposition during their progress through the colon, beyond that effect claimed for the admixture of bile elements with the excrement It is evident that ordinarily the fæces do not enter the canal of the appendix owing to the duplicature at its orifice, and when by failure of this impediment, solid mat ters, fæcal or otherwise, enter its cavity, there is no capacity in its walls for their expulsion. It hence follows that in case of such accidents we find that an inflammatory process is developed in the appendix

The number of cases in which the appendix has been removed by operative procedures or has been obliterated by disease are thus far comparatively I have not such data to record in support of this few, and the observations upon the effects of such view as will stand the test of scientific criticism Be- lesions have not been reported, so as to throw any vague conception of its rudimentary nature seems to show of reason or any foundation in fact, so far as the study of comparative anatomy can aid in direct-

primeval forests who subsisted largely upon herbs and roots, with an admixture of animal food, pre respect it may go towards sustaining this claim. But tioner far fetched hypothesis, nor are there any data available from history of the human race since the creation of mankind, which tend toward the confirmation of this view, and it is only an acknowledgment of ignorance on the part of those who would attempt to bolster up this theory without facts

The increased number of disorders of the appen div vermiformis which have been recognized in these latter years might lead to an inference that it is destined to entire obliteration in the course of time, were it not evident that many affections of the appendix have been formerly ignored from the lack of proper observation in diagnosticating the troubles of appendix vermiformis may be removed with impunity, then it will only prove what has been demonstrated in the case of other important members of the body, that they were not essential to the human seat of the inflammation in the appendix organism But no one would undertake to set aside the important office of the ovaries in the role of crea tion, because, forsooth, they had been removed without detriment to the health and comfort of the individual subsequently It strikes me forcibly that the practice of cophorectomy resorted to so frequently of late for slight causes, and in some instances without indications of disease in the organ, may at no distant day be held as an excuse for cutting down upon the vermiform appendage upon the slightest provocation, for the purpose of ligating and excising it, and thus ridding the individual of further trouble from its disorders How far this might be justified from a consideration of the great risk to life attend ing inflammation and perforation of its walls, in the absence of trustworthy data for an early diagnosis, depends upon the importance which may be attached to the function of this peculiar structure, and surgeons must await with interest the effects of its removal

Whether inflammation is developed in this structure independent of mechanical irritation from the entrance of foreign bodies and the formation of fæcal concretions, has not been clearly demonstrated Clinical observations in cases that yield to treatment leave doubts as to the real seat of disease referred to this region, and so far as noted in post mortem examinations, the lesions have for the most part been traced to the presence of a mechanical irritant While some have claimed that inflammation is set up in the vermiform appendage as a result of derangement of the digestive apparatus, and others have tion supposed that the entrance of germs into its cavity has developed morbio processes in its structure, the facts go to prove that such causes of diseases are rare in comparison with the troubles growing out of local irrita'ion having a mechanical origin It is re

and inflammation is not well defined either by the sensations of the patient or by objective symptoms sented any marked increase of development in this recognized in a physical examination by the practi-There is an absence of preliminary indica-I am not aware of any such facts to corroborate this tions, pointing to the nature of the inflammatory process at the incipiency of disorders of the appendix vermisormis, which presents a problem of difficult solution for the surgeon At this early stage there may, however, exist a certain degree of sensitiveness upon pressure immediately over the site of the appendix, and this tenderness revealed by cautious palpation may serve for the recognition of an incipient inflammation when there is no perceptible thickening or induration in the tissues of the appen-It is clear that the causative influence, of whatever character it may be, must up to a certain point, be of gradual operation in the development of inflam-During this stage it is of the greatest immation Should it appear in the future that the portance to be able to recognize its presence and Not only the external examination should progress be carefully made, but a digital exploration by the rectum should be directed to the discovery of the

> There are in most instances some concomitants of the local trouble manifested in derangement of the alimentary canal, perhaps of a reflex order, prior to the extension of the inflammatory process to the adjoining structures. In the early history of appendicitis it has been noted that there may occur either a disposition to frequent evacuations or a state of intestinal torpor, in which it is difficult to arouse the peristaltic action of the bowels either by purgative medicines or enemata. During this period the constitutional disturbance is not very marked, and yet there exist usually a febrile state with slight rise of temperature, so that nice discrimination will detect a departure from a normal condition of the system

While the presence of fæcal concretions or other foreign bodies in the canal of the appendix may be tolerated for a greater or less period without any manifestation of trouble in the ordinary performance of the functions of the intestines, there are good and sufficient grounds for the conclusion that intestinal derangement from other sources may become an exciting cause of the inflammatory process from a local The history of cases in which death has ırrıtant occurred from other diseases presents quite a number of instances in which there are unmistakable indications of disease in the appendix which has terminated by resolution But it is found generally that inflammation set up in the wall of the canal by a mechanical irritant leads to perforation and extravasation of the contents, accompanied by characteristic shock and followed by diffused inflamma-This is the dividing line between two distinct phases of symptoms, and whatever may have obscured the case previously, it is for the most part well defined after this grave result

There may be only a circumscribed involvement of the surrounding structures, exciting adhesive inflammarkable that the presence of such foreign bodies mation in the serous tissues which shut in the exudararely produces any serious inconvenience until per- tion from the cavity of the appendix and thus formforation of the wall of the appendix vermiformis ing a local abscess. But usually the septic matter ensues, and even then the localization of the pain permeates in different directions and sets up general

peritonitis, with a train of constitutional troubles, attended with marked cerebral disturbance and vital depression

An observation of a peculiar pain in the penis from perforation of the vermiform appendage has been reported by Tiffany, and the same marked feature occurred in my two cases of perforation which were verified by post mortem examinations In the elaborate paper of Fitz on "Perforative Inflammation of the Vermisorm Appendix," some stress is laid upon the disturbance of the urinary and genital organs During the first three days following the onset of the pain connected with perforation micturition is occasionally disturbed Perhaps unusually frequent on the first day it is likely to be difficult on or after the In certain instances the use of the cathethird day The right testicle may be retracted ter is required and swollen, in which case the course of the pain is apt to be toward this gland

We can understand how the escape of irritating matter from the appendix should cause trouble by transmitting inflammation to the contents of the abdomen, including the pelvic viscera, but it is not apparent that such disturbance of the urinary and genital organs results from general peritonitis induced by other causes, and the pain in the penis cannot be attributed to the peritonitis If it should be found that this painful development in the penis is present in the early period of the appendicular inflammation, and is not the result of perforation, it would aid very much in making the diagnosis at this stage

We have the authority of a standard work on Pathological Anatomy and Histology for stating that the most frequent form of inflammation of the appendix The appendix is swollen and is a suppurative one congested, its walls are infiltrated with pus, at some points there may be necrosis and sloughing of portions of its wall Within the cavity of the appendix we find fæcal concretions or foreign bodies or nothing (but mucus) Such an inflammation may terminate in resolution, but more frequently it sets up an inflammation of the surrounding tissues flammation may be either a local or general peritonitis or a suppurative inflammation of the parts about the appendix Less frequently there is a chronic inflammation of the mucous membrane of the appendix, followed by constriction of its upper portion while the lower part is dilated into a cyst filled with (Delafield and Prudden) mucus and serum

Another elaborate treatise on Pathological Anatomy and Pathogenesis states that typhlitis and perityphlitis imply inflammation of the vermiform appendage and parts around it

The vermiform appendage is peculiarly adapted to catch and retain substances passing through the Matters which have been swallowed—such as grape seed, apple pips, cherry stones and the like -and fæces may accumulate in the appendix and Sometimes these become set up inflammation crusted over with phosphates and carbonates and so form fæcal concretions or calculi The inflammaappendage, and then attack the contiguous structure pressions, I would urge a prompt recourse to cura tures, and in this way necrosis and gangrene with tive measures

perforation may be caused The issue differs in different cases It is comparatively favorable if the inflammation continues to be circumscribed, while the exudation is moderate in amount, protective adhesions and false membranes may thus be formed about the affected spot It is very unfavorable when perforation takes place before adequate ad hesions are formed, fatal peritonitis is nearly always When perforation takes place into a part of the peritoneum shut off by adhesions a burrowing fæcal abscess is produced which may burst internally or externally Sometimes the appendage is entirely obliterated by adhesive inflammation, but if the inner or intestinal end becomes closed while the re mainder continues to be patent, the natural mucus secretion may collect in the latter and distend it into It is likewise specially noted that tubercu lous and typhoid ulceration, localized in the vermiform appendage, may give rise to dangerous lesions (Ziegler)

It is not out of place to repeat what has been stated in a recent publication by me, that I cannot acquiesce in that view of pathologists which attributes the degeneration of the cæcum and ap pendix to a low state of vitality in their tissues, but on the contrary I hold that they are highly vitalized, and that it is from being overtaxed in the perform ance of functions connected with the excrementi tious process that they are so subject to disease

I agree with Agnew in considering inflammation as hypernutrition, and consider that it is an effort of nature to restore the equilibrium of the circulation, which has been interrupted by a local morbific im The inflammapression from the causative agent tory process is an attempt at recuperation of the in jured part, and within certain limits it is salutary, but when it transcends the powers and capacities of the organism I infer that from the undue excitation and over action of this extraordinary impulse, there is a breaking down of the forces of the organization, which leads to disintegration and death of the struc-By the development of inflammation tures involved in the tissues of the cæcal region nature resents an insult to the components of this organism, and when it triumphs over the difficulties encountered resolution ensues, but if it fails, ulceration and perforation occur, leading to abscesses and peritonitis

To illustrate the important vital connection of the ileo cæcal structure with the general organism, I may refer to the fatal results of the resection of this division of the intestinal canal of dogs reported in my paper on obscure impediments of the intestinal canal in Gaillard's Journal, while resection of a por tion of the ileum was followed by complete restora tion of the intestine These deaths occurred in less than twenty four hours, indicating that they were the effect of shock, which can only be explained upon the basis of a most intimate link of association of this structure with the organic nervous system

Being therefore convinced of the traumatic reaction on the part of the caecal division of the in testines as a consequence of injuries or morbific im

the diseased appendix, all writers are pretty well agreed upon using anodynes and keeping the patient at rest in the early stage with soothing fomentations mild purgative or to an enema to secure evacuations, when the bowels are bound at the outset, and afterwards used opiates in full doses continuously of every kind is hurtful, and that masterly inactivity should be observed with a view to promote resolution of the inflammatory process, if this be possible, thus averting suppuration and perforation

With the uncertainty that hangs over the diagnosis in the early stage of appendicular disorder, the expectant treatment is generally recognized as the most prudent course, but there is a growing tendency among surgeons to cut the Gordean knot by a decisive step, and use an exploratory operation by in cision for determining the exact seat and character of the disturbance Aggressive practitioners such as Bull and Weir, with others, have inculcated surgical interference at the earliest practicable period, and with the lights before us in the cases of this kind the surgeon is warranted so soon as he has good and sufficient reason to believe that there exist progressive inflammation of the appendix, in verifying this diagnosis by cutting down upon it This course is indicated when the symptoms of a local and constitutional or general nature are such as to raise a presumption in favor of appendicular inflammation, in advance of those phenomena which usually accompany perforation In other words, an exploratory operation is advisable with a view to learn the event there is no evidence of inflammatory action in the tissues of the appendix or cæcum, and no indurated mass can be discovered by palpation in either, after careful exploration, the incision may be closed without any probability of serious consequences

If, however, on the contrary, appendicitis is verified, with or without the recognition of a solid body within its canal, it would be proper to ligate or suture the cæcal attachment, and excise the appendix vermiformis, as a security against further inflammatory developments in its structure Thus all liability to the graver results of perforation would be most effectually obviated, and thus surgery of a destruc tive order would eventually prove to be conservative in preventing other grave consequences The diagnosis of appendicular disorders cannot be guaranteed without an exploratory operation, as the statements of those most familiar with this class of cases, show most conclusively, and it cannot augment matenally the risk to life, while it ensures a radical cure when disease exists

An incision may be made outside of the right rec-The extension of the opening upward noted in my case of perforation of the appendix re-

In regard to the proceedure for the treatment of toneal cavity by adhesions, so that it left the iliac fossa and reached the diaphragm on the right side, burrowing behind the liver in the form of a cloaca, which could not have been explored properly by an over the iliac region, but some have resorted to a incision in the linea alba owing to the adhesions existing then between the intestines and the abdominal wall

In a recent laparotomy for volvulus of the ileum It may be put down as a dogma in the management near its excal connection such difficulty was encounof incipient cases of appendicitis, that perturbation tered in the exploration of the seat of disease through an incision in the median line from the umbilicus to the pubes, that it was found necessary to extend my incision upwards to a point midway between the umbilious and ensiform cartilage to effect my object The walls of the intestine involved in the twist were agglutinated and the canal entirely occluded, with disintegration on either side of the obstruction The cecal segment was ligated and the other was cut beyond the gangrenous line and stitched into the median incision, after the process for artificial anus, upon closing the abdomen

> If the site of the trouble could have been known in advance, as is presumed to be ascertained in appendicitis, it would certainly have required a shorter incision in the linea semilunaris than was found necessary in the linea alba in that case I avail myself therefore of the opportunity to modify my criticism in the paper read at Chicago, upon the opening of the abdomen at the outer border of the rectus muscle, and fully realize its advantages in operating for appendicular extravasation

The great advantage of the several steps consists in adapting the extent of the operative procedure to the nature of the case If there be a doubt in the diagnosis of appendicitis it is solved by a transverse exact condition of the parts involved, and in the incision in the iliac region, and if nothing be revealed requiring further surgical interference the opening may be closed by suturing the peritoneum with catgut in continuous form, while the fascia, muscles and skin are brought together by interrupted suture of iron dyed silk There will not occur much strain upon the suture in this line of union and the operation should not be carried further except when the evidence of disease in the adjacent structures demands a larger field of observation Incisions along the linea semilunaris upward or downward with the turning aside of the corresponding flaps will afford ample scope for proceeding in cases of circumscribed abscesses or general peritonitis resulting from perforation of the appendix vermiformis

> It has been my object in this paper to direct attention to the early development of inflammation in the structure of the appendix, as its progress and termination in perforation have proved serious in most cases, and the intractability of the consequences of the extravasation of its contents, as manifested by suppuration and peritonitis, is generally recognized by surgeons

I am not prepared to assert that a differential diagalong the linea semilunaris would be indicated in case nosis of appendicitis can be assured prior to perfora suppurating track should be discovered, as was ation, but a reasonable presumption in favor of the seat of the disorder being in the structure of the apported April 20, 1887, in the Medical and Surgical pendix, may be reached by a careful examination of Reporter This was shut off from the general pen- the local signs and the general symptoms In view

of the strong probability of the existence of the appendicular trouble it is claimed that an exploratory operation is justifiable in advance of any indications of perforation We should choose the lesser evil of rubber bandage an unnecessary incision, rather than risk the greater, in the calamitous results of extravasation of the contents of the appendix into the peritoneal cavity accompanied by shock and followed by septicæmia The difficulties which the surgeon must encounter from delay in resorting to an operation until perfora tion assures him of its necessity, should warrant him in forestalling the danger by an exploratory incision says so soon as he becomes impressed with the probability of appendicular inflammation, and if realized, to be plicity and efficiency, tend to the advancement of followed by radical operation

MEDICAL PROGRESS.

SEPARATION OF THE VERTEBRÆ WITH PROTRUSION of Hernia -Dr W F Wilkins, of Ottawa, Kansas, reports the following unique case

Some time since we had a wind storm that did a great deal of damage, and among other houses that were demolished was one occupied by Mr G and The husband was not at home at his young wife the time of the storm, but returned shortly after his house had been scattered over the vacant lots ad-The young wife, who was in her eighth month of gestation, while being tumbled about with the furniture and fragments of the house, was rendered insensible by the corner of a table, as she supposed, coming violently in contact with her abdomen Pains came on the day after, and she was delivered of a male child with a peculiar "hunch on its back," as the attending physician called a hernia situated at the juncture of the dorsal with the lumbar vertebræ

I was called to see the child on the sixth day after delivery, and found the "hunch" of a purple color and about the size of a goose-egg After careful examination I diagnosticated the case a hernia of some description, and the parents decided to have the lit tle fellow operated on as soon as possible The next day, with an assistant, I anæsthetized the patient and proceeded to operate by cutting down upon the her-We made a longitudinal incision about 4 nial sac inches long, and found the vertebræ separated to the Through the opening protruded extent of ½ inch the hernia with its contents The spinal cord had been pushed to one side I returned the hernia with out opening the sac, carefully replaced the cord and brought the vertebræ into exact apposition Then the question arose how to keep the bones in position? After considerable deliberation, I carbolized a silver suture and passed it through the superior intervertebral notch of the dorsal vertebra, into the superior intervertebral notch of the lumbar vertebra, through the inferior intervertebral notch of the lumbar, back to say nothing of the small amount of relief production the concepts side through the concepts and through the concepts and through the concepts and through the concepts and through the concepts and through the concepts and through the concepts and through the concepts and through the concepts are through the concepts and through the concepts are through the concepts and through the concepts are through the concepts and the concepts are through the concepts are t bral notch of the lumbar into the superior interver-tebral notch of the dorsal vertebra, repeating this dispel an ordinary case, but what about the, to most three times, and making a figure of 8 knot binding people, disgusting smell? The treatment verily is

the bones firmly in position The external wound was closed with six catgut sutures, the whole dusted with iodoform, and the dressing finished with a broad

Antiseptic precautions were observed throughout the operation, which lasted about half an hour wound healed by first intention and the little fellow was practically well in six days -St Louis Med and Surg Journal, June, 1888

TREATMENT OF ECZEMA —MR J A WETHERELL

Communications which in any way, by their sim the domain of practical treatment, are deserving of the consideration of all professing dermatology, and especially of those who make this branch their sole Having myself been a sufferer from recurrent chronic eczema for a period of five years, and consequently taken a great interest in all pertaining to it, I believe that I have discovered a new method of treating the disease What is to follow has particular reference to the eczema simplex affecting the fingers and hands The best procedure, possibly, will be to divide the subject into sections

Medical Treatment — (a) External pieces of lint, sufficient to surround the fingers separately, in pure liquor carbonis detergens, and apply them, surrounded by gutta-percha tissue, at bedtime They are allowed to remain on all night Considerable smarting is at first caused, but it soon disappears On removing the lint in the morning the skin looks sodden, the former vesicles are often raised into small bullæ, which, however, ere long get absorbed and During the day the hand is left exposed to dry up the open air or, better still, kept gloved in thin kid They are washed every third day with lanoline coal-To render the skin more pliable and soft tar soap a little lanoline is rubbed in every morning In the course of three or four days the upper hardened cuticle comes off, in some cases as a whole, in others in large flakes, leaving a clean smooth surface, healthier, with more tonicity in it, and not so subject to undergo the catarrhal multiplication so characteristic of eczema When much redness or heat exists, or there is an acrid discharge, or the implicated surface is evtensive, we may moderate the strength of the alco holic solution of coal tar by mixing it with (1 to 10 or 20) cold water, or the alkaline bathing, to be presently mentioned, may be tried If there are only a few vesicles, I have often touched them over with a little pure carbolic acid, so as to bring away a mere shell of epidermis of limited area Let us now briefly review a few of the other local methods adopted As to ointments—e g, of bismuth, zinc, etc—all I have to remark is that they are, like the tar method of Hebra, simply disgusting Even the lowest menial does not care to parade the streets with his fingers or hand bandaged up with so many white linen rage, Huile de Cade or oleum rusci pyroligneum

worse than the disease Bathing with saline or alka line waters, such as are found at Harrogate, Bath, etc. alternating or combined with the application of spirituous alkaline lotions, I have great faith in, especially where the disease is extensive or there is much evudation, e g, in eczema rubrum, or the case Watering-places and is intractable to other means the seaside, however, are not always near, nor could the patient always afford to go to them The various gelatine, collodion, or other impermeable coatings, I consider worthless (b) Internal Drugs, as such, are not required To speak of treating the gouty or rheumatic diathesis by colchicum, etc., is simply ridiculous Such terms as these should, in my opinion, be abolished, or applied only where actual a tacks of gout or rheumatism exist or threaten Should we not rather speak of such as "a constitution with a tendency to excessive formation of uric acid," or even as "uratic" To give large doses of arsenic is sheer waste of material Very small doses often dispel scaliness, but it should only be administered in the form of some mineral water, as La this occurring Bourboule, Woodhall, etc

- 2 Dietetic Medication -Avoid stimulating and in digestible substances, as pickles, tea, etc In other words, the chief materials of diet should be lean meat, milk, or cocoa to breakfast, old bread, fresh vegetables (except starchy bodies, as potatoes), no pastry Avoid all that disagrees, especially beer and malt
- 3 General Indications Cleanliness in everything is very essential, clothe and diet the patient according to the changing season, avoid all local irritants, take plenty of fresh air and exercise, and by these means alone regulate the bowels and other emunc-

In spite of all rules, cases now and then occur which withstand all treatment, baffle every effort, and cling to the sufferer for a lifetime Such must be attacked on general principles The plan cannot be a stereotyped one — Lancet, June 2, 1883

URETHAN AND ANYL HYDRATE IN INSOMNIA -DRS J P CROZIER GRIFFITH and ELWOOD R KIRBY, in an article on this subject, give the records of 19 cases of insomnia treated by urethan records show that out of 19 cases there have been but 2 where the hypnotic action was really satisfac-In a few others the effect was slight, or it was doubtful whether the sleep could be attributed to the action of the medicine, and would not probably have been obtained without it In 3 cases there were unpleasant secondary effects, though in the last case the stomach was irritable to other drugs usually well It may be objected that the amount generally employed (15 grains) was too small This may possibly be true, though it is that usually recomfore adopted repeated in two hours or less, and in one case as which I shall hereafter mention much as 60 grains were given during the night with

however, conclude that, as far as our experience goes, urethan is an uncertain and unreliable hypnotic, though in large doses it will at times prove useful, and has advantages which at least recommend it for trial in some cases

Amyl hydrate was used in 18 cases The results were exceedingly favorable In only 2 cases were there any unpleasant effects, in one a temporary delinum occurred with the first dose in a rather hysterical woman, and in the other vomiting was produced, though the stomach of this patient was unusually ir-The taste is often complained of, but we have succeeded in disguising it to some extent with liquorice, as v Mering suggests We have also found it very satisfactory when given in gelatine capsules, each containing 20 minims The ordinary capsule in two parts will answer nicely for this purpose, and will retain the drug without leaking A full glass of water should be immediately swallowed after the capsule, in order to avoid offending a possibly irrita-In most cases there is no danger of ble stomach

Our results show that amyl hydrate does not always succeed in producing sleep Particularly is this the case when pain is present, or when there is very troublesome cough We believe it, nevertheless, to be a valuable hypnotic, more powerful than urethan or paraldehyde, and to be preferred to them, and always to be chosen in place of chloral to produce sleep, though it is not so strong as the latter drug -Med News, May 19, 1888

ELECTRICAL TREATMENT OF SALPINGITIS -DR Apostoli records a case of hydrosalpingitis treated by his method of galvano puncture, with excellent results, and draws the following conclusions

In gynecology fever and inflammation are not to be regarded as absolutely contraindicating the methodical and proper application of the galvanic current

2 Inflammation of the uterus and its appendages, when not in the stage of suppuration, may be advantageously treated by the galvanic current This current, though admissible in the first stages of congestion and inflammation, I consider ought not to be used when suppuration exists, unless it be brought into action in the form of an electrical cauterization, for the purpose of making a safe and certain outlet for the matter through the vaginal wall

3 A galvano-caustic puncture is a valuable means by which we may gain two ends first, to check the outbreak of inflammatory action or to stop its progress, secondly, to give an easy exit to a collection of fluid, by the falling of an eschar, in any case where the cavity containing such fluid is accessible through the upper part of the vaginal wall

4 Every inflammatory exudation presenting itself mended by the earlier writers, and which we there- in the vaginal cul-de-sac may be treated by means of Moreover, the dose was frequently the galvano puncture, except under the condition

5 This method may be easily and harmlessly emout hypnotic effect It is also true that a few cases ployed for the treatment of certain cases of salpinging constituted too severe a test for a simple hypnotic, tis and hydrosalpinx, on account of the close relation as pain or persistent cough was present We must, between the tumors and the vaginal wall.

6 In making every galvano-puncture, all the rules which I have hitherto laid down concerning the seat of the puncture, its depth, the size of the trocar, the antiseptic precautions, the repose of the patient, etc., must be scrupulously observed

7 Two negative galvano-punctures, vaginal only, were sufficient in one case of hydrosalpinx to bring about very quickly an important anatomical change, and complete symptomatic cure -Brit Med Jour, May 12, 1888

Peppermint Water in Pruritus Pudendi —Dr AMAND ROUTH calls attention to the value of peppermint water in pruritus pudendi In pruritus due to pediculi, ascarides, an irritable urethral caruncle, an endocervical polypus, early cancer of the cerviv, distension of Bartholini's ducts or glands, the leucorrhœa of vaginitis, endocervicitis, and metritis, or the irritating discharges of advanced carcinoma uteri, or to a gouty or diabetic diathesis, peppermint water excels all others, cocaine inclusive, in affording relief, whilst endeavors are being made to remove the tain a good supply of lymph If necessary, a second The agent here alluded to is peppermint water used as a lotion The B P preparation answers well, but is bulky for carrying about, and is incapable of concentration unless rendered alkaline This is best done by borax, as being in itself soothing and antiseptic Patients can easily make their own lotion, as required for use, by putting a teaspoonful of borax into a pint bottle of hot water and adding to it 5 drops of oleum menthæ piperitæ and shaking well, the parts affected to be freely bathed with a soft If no cracks or sores are present, this lotion will remove the itching, but if there be eczema or a rawness from scratching, it is inapplicable oil, with 5 grs of iodoform to the ounce, is then The greatest and most permanent remore useful lief is afforded in the neurosal form, especially in the pruritus which often accompanies pregnancy also very useful in the pruritus which occurs at the climacteric, or in elderly women, in whom it may be only part of a general pruritus, and also in those cases of women of all ages where the urine simultaneously becomes of very low specific gravity without any evidence of having a gouty or granular kidney as a remote cause — Brit Med Jour, April 14, 1888

Kephir and its Use as an Infant Food —Dr LONGSTREET TAYLOR has found kephir useful in feed-He considers ing marasmic and hand-reared infants that it is superior to peptonized preparations and kou-The former is theoretically perfect, but practically not always satisfactory, either because the process is carried on too far or because injurious ptomaines are introduced during the process of prepar-The latter is too expensive and too difficult a maximal effect is pi to obtain ever to be of much general service phir is a product of the fermentation of cow's milk by which the thick coagulum which would otherwise form is broken up into fine flocculent flakes, which are much more amenable to the influence of the gas-It must not be used after it has become mel in the dose of 3 g too old and sour, as in this state it is neither palatable - Vratch, No 8, 188 nor digestible For young infants only the weak or

young kephir in the first stage of fermentation should be used It should be given lukewarm, i e, about 75° F If the infant is less than a month old it may be diluted with one third of water, the proportion of water being gradually diminished so that when the infant is six weeks old it may take the kephir undiluted -Arch of Pediatrics, May, 1888

Mode of Obtaining Vaccine Lymph without PUNCTURING THE VESICLES -In the Brit Med Jour, April, 1888, DR GRIGG describes a method of ob taining lymph without puncturing the vesicle, which does away with the chance of contamination with blood, and lessens the risk of subsequent inflamma It is as follows A small bead of pure glycerme is dropped upon the centre of each pock, then the top of each pock is rubbed with a smooth blunt instrument (the round glass head of a shawl-pin does excellently) After the lapse of two or three min utes the bead of glycerine will have increased to nearly double its size, especially if the vesicle condrop of glycerine may be applied after the first has been used, and even a third Another advantage in this plan is that it is not necessary to hold the infant's arm, and consequently it does not become trouble some and difficult to convey the lymph from one arm to another

CONDURANGO —PROFESSOR OSER, of Vienna, who has been making trials of condurango bark in carcinoma and other diseases of the stomach, finds that it has an excellent effect on the appetite and that it relieves over-sensitiveness Some patients can take it for months without any unpleasant symptoms, while in others it soon sets up nausea, which cannot be prevented either by the simultaneous administra tion of correctives or by the ent preparations of the bar the liquor Conduiango to deserve a place in our ' tomatic remedy, but as action on malignant dise dictum that the only ho stomach by means of di a mistaken diagnosis —

Hypodermic Injecti DR NIKOLAI N Rus ing employed Scarenz number of cases of sy ing conclusions not only in the hos " patients 2 The bea veterated neglected fo tion, the method may an auxiliary means fc doubtful cases non syphilitic person 17 injurious effects

THE

Journal of the American Medical Association PUBLISHED WEEKLY

THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to call to the attention of the profession. Letters written for publication or exetaining items of information should be accompanied by the writer's full name and address, although not necessarily to be published. All com munications in regard to editorial work should be addressed to the Editor

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A NOVELTY IN HEPATIC SURGERY

In the American Journal of the Medical Sciences, for June, DR L McLane TIFFANY, of Baltimore, records two cases, of abscess of the liver and stone in the gall bladder, in which the important part of each operation was the shutting off of a portion of the liver by suture from the general cavity of the belly, so that treatment could be applied irrespective of the neighboring but not entirely investing peri-

In the case of the abscess an incision 3 inches long was made just below, and parallel to, the right costal cartilages, and carried down to the peritoneum When hæmorrhage was arrested the peritoneum was opened for a distance of 2 inches, and the liver, which was not adherent, was exposed Slight traction on each lip of the wound caused the edges of the peritoneum to open widely, showing an oval area of liver surface, 1 by 2 inches The peritoneum edge and liver surface were then sewed together by close continuous sutures with a fine needle and silk, by which the general cavity of the peritoneum was shut off from the wound, and the operator had a buttonhole of extraperitoneal liver at disposal for the operation, which was then completed

The second case is particularly interesting from the fact that the gall bladder was opened through the liver, since digital exploration failed to detect the gall bladder, and the intestines were adherent to the under surface of the liver and to the gall-bladder, which was felt through the intestines after the incision was sufficiently enlarged In view of the success of

was done as follows. A slender hollow needle was passed directly through the liver from above downward into the gall bladder, and on aspirating a perfectly clear fluid entered the syringe. It was thought that if adhesions prevented the gall bladder from projecting beyond the liver edge the same would prevent extravasations into the peritoneal cavity, so the parietal peritoneum was sewed to the upper surface of the liver, making a "buttonhole" 1 5x2 inches, the rest of the peritoneal incision being also closed, and with the needle, which remained in situ, as a guide, the gall bladder was reached by cutting through the thickness of the liver, the incision being of such a size that the operator's fingers would fill it The gush of blood that followed the use of the knife was arrested by the forefinger thrust into the wound The finger was not removed for three minutes, and no hæmorrhage followed its removal Several stones were detected by the end of the finger, and were removed with the forceps A rubber drainage tube was left in the gall-bladder, and in one month from the time of operation there was perfect union of the wound.

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Dr Tiffany's cases show two things that hæmorrhage from a wound of the liver is not the surgical bête noir it has been supposed to be, and that it is amenable to pressure applied directly to the bleeding surface, as is shown by the case of stab-wound of the liver treated successfully by Burckhardt, described in THE JOURNAL, Vol viii, p 323, and Vol ix, p 62, in which the furious hæmorrhage was arrested by a tampon of 10doform gauze The cases show, in the second place, that by shutting off an area of the liver from the peritoneal cavity there is a distinct gain for purposes of drainage, and lessened risk of septic in-One of the chief advantages of the method, as can be readily seen, is the rapidity with which it can be performed, so that it is readily applicable in cases of stab or gunshot wound of the liver, in which a more tedious method would be out of the question

DR TURNBULL'S TREATMENT OF ACUTE AND CHRONIC OTORRHŒ4

In THE JOURNAL of June 9, 1888, DR LAWRENCE TURNBULL assigns a high value to inflation of the Eustachian tube as a means of treatment in suitable cases, but principally of catarrh with perforation often proves very dangerous in unskilled hands in "otorrhœa" on account of its effects on the circulation, local effects of an excessive pressure, and also the blowing back of purulent secretions from the nose and pharynx into the ear Before practicing the operation in the case of abscess, the operation inflation, the nostrils should be cleansed thoroughly

The patients, especially children, should be taught to keep the nostrils clean Many children do not know how to blow the nose The discharge of purulent matters from the ear into the pharynx, setting up secondary troubles, is not a matter of theory with Dr Turnbull, but is proved by observation distressing case of bilateral perforation came under Dr Turnbull's notice in which hæmoptysis and gastric hæmorrhage had been diagnosticated from the vomiting of bloody discharges which he describes as having been swallowed from the ear, via Eustachian tubes At the post-mortem examination, the stomach contained a pint of putrid and bloody matter

Dr Turnbull does not approve of syringing, as a rule, and says it should never be done except by the physician. In the first place, a good syringe is a rarity, and an expensive rarity. Even if the instrument is good, in improper hands it may tear the membrane. He claims to have seen such accidents occur, to the entire destruction of the membrana tympani.

THE MALADY OF THE EMPEROR FREDERICK III

According to the cabled reports of last Monday, the disease of which Frederick III died was cancer The autopsy proved that the larynx of the larynx was completely destroyed by cancer, and that purulent bronchitis existed There was also inflammation of the finer ramifications of the bronchial tubes into which purulent particles had entered The whole larynx was in a state of suppuration, and presented a soft lumpy mass, with scarcely any trace of cartilaginous structure remaining There was nothing to show the existence of perforation of the walls separating the trachea and esophagus The choking sensation from which the Emperor suffered during the last of his life, which was attributed to such a perforation, appears to have been really due to collapse of the larynx, owing to the destruction of the cartilage The direct cause of death is given as paralysis of the lungs, according to the cable reports

Dr Mackenzie, in his report on Emperor Frederick's case, says "In my opinion the disease from which the Emperor died was cancer The morbid process probably commenced in the deepest tissues of the cartilaginous structures of the larynx and they became affected at a very early date. The small growth which was present when I first made an examination was removed by me by several operations, and all the portions removed were submitted to Professor Virchow. He was unable to detect any evi-

dences of the existence of cancer The examinations made in the beginning of March by Professor Wal deyer led to the belief that cancer was then present Whether the disease was originally cancerous, or as sumed a malignant character some months after its first appearance, it is impossible to state. The fact that perichondritis and carysis of the cartilages played an active and important part in the development of the disease doubtless largely contributed to make it impossible to form a decided opinion as to its nature till quite a recent date."

To Dr Mackenzie's report Dr Hovell adds the following "In so far as my observations since last August permit me to form an opinion, I concur en tirely in Dr Mackenzie's view"

MICHIGAN STATE MEDICAL SOCIETY

The programme of the twenty-third annual meet ing of this Society was not only elegant in its appear ance, but admirable in the arrangement of the work of the Society The general meetings for transacting the business of the Society were to be held in the morning, and the reading and discussion of papers occupied the afternoons in three Sections-Practice of Medicine, Surgery, and Obstetrics and Gynecology Each Section was provided with a full complement of papers on important subjects, and by this plan more than three times as much work would be ac complished as could be done if all were attempted in general sessions, as is done by nearly all our State The annual meeting was recently Medical Societies held in Detroit and proved highly satisfactory to the If all our larger city and members in attendance County Medical Societies would provide for having their scientific and practical work done in Sections, each holding meetings as often as the amount of work might require, while the general meetings for business and social purposes might be only annual or semi annual, and if all the State Societies were made up of delegates from the local societies and would follow the example of the Michigan Society, the whole sys tem of medical organizations would be in harmony with that of the American Medical Association, and afford the devotees of every legitimate specialty am ple opportunity to cultivate their own field in har mony and affiliation with every other, and thereby preserve the unity and social integrity of the whole profession

TRANSACTIONS OF THE NINTH INTERNATIONAL MEDICAL CONGRESS

To answer several inquiries it is proper to state

that three large volumes of the Transactions are through the press and the fourth is well advanced But a fifth will be required to complete the publication The work is progressing as rapidly as is consistent with good quality of work, and with a fair prospect of completion within the next two months All inquiries regarding the volumes already published should be addressed to John B Hamilton, M D, late Secretary General, and Chairman of the Publication Committee, Washington, D C

EDITORIAL NOTES

An Association of Sanitary Inspectors is one of the new organizations of Great Britain a national association, with sub-associations of the provincial associations, says the Sanitary News, at a meeting held in Liverpool lately, passed resolutions to the following effect "That the interests of the public health demand that all candidates for the position of sanitary inspector shall be duly qualified and certified by examination held under and directed by authority of the Government, that fixity of tenure be assured during good tary inspectors be fixed by the Local Government Board, that one simplified Public Health Act, applicable to the whole kingdom, embodying these amongst other changes is necessary for the efficient discharge of the duties affecting the public health which devolve upon the sanitary inspectors"

THE SALE OF UNWHOLESOME FRUIT -It is at this season of the year that the health of city dwellers, and especially of the young, is endangered by untipe or over-ripe fruit Those most endangered are the children of the poor, and the wandering waifs of the streets, since over ripe and even partly decayed fruit is exposed for sale at "cut prices" by the dealers This is being done now in Chicago, and probably in other cities, and city health authorities would do well to put a stop to the practice at the beginning of the hot weather In Chicago the fruitstands and street venders do no small business in over-ripe and partly decayed bananas, which, when purchased by a small boy is a double engine of destruction, since the peel is usually deposited on the side walks before the boy begins to jeopardize his oun health by eating the fruit

THE CHICAGO GARBAGE CREMATORY IS doing satisfactors work, and a careful record is kept of the proportion of fuel consumed to the amount of material burned

GLASS DRAINS AND PIPES for the plumbing of houses have been recommended by a Chicago architect, chiefly from the fact that the material is not acted upon by the agents that usually corrode pipes of other material, and is safe from the attacks of rats

THE "CANADA MEDICAL AND SURGICAL JOURNAL" will soon appear as the Montreal Medical Journal

A TRAINING SCHOOL FOR COLORED NURSES IS CONnected with the Spellnan Seminary, Ga

SOCIETY PROCEEDINGS.

GERMAN MEDICAL SOCIETY OF PHILADEL-PHIA

Meeting of May 14, 1888

VICE-PRESIDENT LAWRENCE WOLFF IN THE CHAIR

DR CARL SEILER read a paper on

HYPERTROPHY OF THE TONSILS

He said that as yet we did not know whether the tonsils performed any physiological function or not, but that the view was prevalent that these organs were residuary and of no use in the economy He behavior, that the minimum scale of salary for sani-stated further that in the normal condition they were invisible and became visible only by a hypertrophy of their tissue This view had lately been forcibly expressed by Dr Daly, of Pittsburgh, and found a proof in the fact that even when slightly hypertrophied in youth they usually disappeared at the age of 25 or 30 years They had no connection whatsoever with the genito-urinary apparatus, as had recently been asserted

After briefly describing the minute anatomy of the tonsil, he entered upon the subject proper, and said that we could recognize three distinct varieties of hypertrophied tonsils first, the ordinary soft hypertrophied tonsil most commonly met with in childhood and early youth, and rarely found in adult age This variety is characterized by simple enlargement of the tonsillar tissue, with a corresponding increase in the size of the crypts, which latter mostly contain plugs of white, cheesy secretion This secretion in some cases becomes putrid and emits an extremely disagreeable odor This simple hypertrophied tonsil is frequently the seat of periodical acute inflammation, which may or may not produce parenchymatous suppuration Coexisting with this chronic tonsillar hypertrophy we usually find a chronic nasopharyngeal catarrh and more or less hypertrophy of the pharyngeal tonsil These conditions give rise to a variety of symptoms, the most prominent of which are interference with proper vocalization and articulation, insufficient eration of the blood, gastric disturbances and frequently catarrh of the middle

The second variety is the so-called scirrhous ton sil first mentioned by Dr Jarvis, of New York, which is characterized by a smooth exterior surface and a hard, cartilaginous feel to the touch of the finger or so, rarely contain the cheesy secretion of hypertrophied tonsil is met with usually in young does not become impacted in the tissue of the tonadults, and is rarely, if ever, the seat of acute period-sil ical inflammation The hardness is imparted to it by a deposit of connective tissue between the cellular week or ten days, and from four to six applications elements, and particularly around the blood-vessels, canaliculizing them, and thus depriving them of their contractility They interfere by their presence with contractility vocalization and articulation, and naso-pharyngeal catarrh as well as chronic laryngeal inflammation, frequently coexist with them

The third variety may be called the ragged hypertrophied tonsil, and is nothing but the result of the first variety having been the seat of frequent tonsillar abscesses which have caused parts of the tissue to slough away, leaving a ragged mass of tonsillar tissue between the faucial pillars young strumous adults and is perhaps the most dangerous to the general health, masmuch as it gives lodgment to septic material and thus in many cases

produces chronic septicæmia

Dr Seiler then entered into the consideration of the treatment of hypertrophied tonsils, and said that in all cases the offending masses should be removed, but that the method by which this was to be accomplished should be carefully considered and adapted to the requirements of each individual case chemical caustics applied to the surface of the tonsil were worse than useless, as their application gave rise to a great deal of pain and had to be kept up for a considerable length of time to produce any re-In the ordinary soft variety the tonsil sults at all was best removed by ablation with the tonsillotome Care should, however, be taken not to wound the edge of the anterior pillar, because a small branch of tonsil, in which the canaliculization of the vessels the tonsillar artery runs close to this edge and when cut gives rise to hæmorrhage difficult to control the anterior pillar is adherent to the tonsil, it should be loosened, and if this is not possible owing to the bands of fibrous tissue connecting the pillar with the tonsil being too strong to be torn, the tonsillotome cannot be used with any degree of safety and the galvano-cautery knife should be used After the projecting portion of the tonsil had been ablated, the cut surface should be brushed over with a 60 grain solution of nitrate of silver to cause contraction of the capillaries and to cover the wound, and any secondary hæmorrhage, which, however, rarely occurred, should be controlled with a strong solution of tannic and gallic acid used as a gargle The old method of and gallic acid used as a gargle removing the tonsils with the volcellum and bistoury the lecturer said was unsafe, as the edge of the anterior pillar, even when not adherent, was too easily Total extirpation wounded by the heel of the knife or enucleation was also dangerous, besides being unnecessary except in the extremely rare cases of cancerous growth in the tonsil

ragged tonsil was the galvano-caustic method of removing hypertrophied tonsils. In applying this moving hypertrophied tonsils. In applying this method the galvano cautery knife should be heated method the galvano cautery knife should be heated to a bright red heat, and should then be pressed into to a bright red heat, and should then be pressed into twenty-four hours

the tissue of the tonsil by entering one of the crypts The crypts are usually not enlarged, and if and cutting with it from within outward, so that the This variety eschar resulting from the burn can easily fall off and This procedure Dr Seiler said did not give rise to any pain, and should be repeated at intervals of a usually sufficed to reduce the tonsils to a size com patible with health and comfort of the patient Under no circumstances should any preparation for the removal or reduction of hypertrophied tonsils be undertaken while the organ was in a state of acute in In the case of the ragged tonsil, scrapflammation ing the tonsillar tissue from the capsule with a sharp curette had been recommended, but this method was not only very bloody, but also painful, and on that account the galvano cautery was to be preferred

For the removal of the scirrhous tonsil, Dr Seiler It is usually found in recommended the Jarvis snare as the best and safest The steel wire loop should be laid instrument around the enlarged tonsil and by turning the screw should be gradually decreased in size until the portion encurcled by the wire was cut off If done slowly the operation occasioned very little pain and time was given for the edges of the rigid vessels to become agglutinated so that little or no hæmorrhage resulted The best way, he said, was to start the snaring process and then let the patient turn the screw himself, trusting to him that it was not done too quickly, for the patient would tighten the loop until he felt the pain and would then stop, to begin again when the pain had ceased The time occupied in thus removing a scirrhous tonsil was from two to three hours

DR MUERLECK suggested that many of the supposed cases of hæmophilia were cases of scirrhous caused profuse and persistent hæmorrhage after ab-For this reason he asked the lecturer to definitely state the diagnostic differentiation between the soft and fibrous forms

DR VANSANT desired the judgment of Dr Seiler upon the use of alkalies in acute tonsillitis-especi-He inquired ally of sodium bicarbonate and borax furthermore, whether, after repeated attacks of in flammation, the resulting hypertrophy ever spontane-In the matter of diagnosis, it ously disappears should be borne in mind that other tissue changes than simple inflammation and hypertrophy may have their seat in the tonsils It is a question whether the initial lesion of syphilis would be likely to lead to The cases he had observed presented a mere superficial ulceration without induration. In none of the cases reported by Tchisbriakoff, Peter son, Tomasheosky and Seveki within the past year, was the fact of induration mentioned. He would like to know whether this peculiarity is constant in 2

DR WOLF had had considerable success in abort lesion in this location The safest and only applicable one in cases of ing acute tonsilitis by Dr Seiler's method, viz by

cation was generally successful in preventing suppuration—besides giving great comfort to the patient by reducing the tension and pain

DR FRIEBIS noted the frequent association of tonsillar hypertrophy and otitis media, but was not clear in his mind whether the same is to be attributed to impeded nasal respiration (mouth breathing), or to the septic influences from the crypts, or to mechanical obstruction of the mouth of the Eustachian tube by the swollen gland Dr Miller, in using the cautery knife, had frequently had it stick in the tonsilar tissue and had caused pain and hamorrhage by its violent This difficulty was due to a too early shutting off of the current and could easily be avoided The knife should be hot when applied and removed He had used the galvano cautery more often than the guillotine-even in the soft variety-owing to an unconquerable prejudice on the part of the patients against any cutting operation For the same reason the blade must be heated after it is in the mouth, so that the patient may not see it If both tonsils were treated at one sitting, deglutition would be rendered unnecessary painful He treats them. therefore, in alternation, with two sittings per week He reduces them so that they do not project beyond the pillars and leaves the rest to cicatricial contrac-A most useful battery for the purpose is that of Dr Seiler The method of gouging out the growth with the finger is not only barbarous but dangerous He would not agree with the lecturer ing and night that the tonsils are necessarily in a pathological state when they fill the space between the anterior and posterior pillars, and do not extend beyond them

DR WEED quoted the two cases reported by Croly of primary sarcoma of the tonsil, in both of which incisions were made to evacuate the supposed abscess Such an affection might be mistaken for a hypertrophy even more easily than for quinsy, and the guillotine might evoke a dangerous hemorrhage difficult by the fact that a variety of affections have here their local manifestations Le Gendre considers the tonsil the site of the initial lesions of scarlatina and diphtheria, and Fraenkel calls attention to other varieties of septic infection from this gland Le Brun looks upon all tonsilitis as infectious and regulates his therapeusis accordingly hand, Froelich reports a group of cases in some of following amendments were adopted which the tonsil seems to have been the seat of local lesion, although not the point of original inoculation The first case was one of so called follicular tonsilitis followed by a fatal suppurative peritonitis autopsy Froelich and his assistant sustained slight be more convenient for him to attend wounds with a resulting follicular tonsilitis In addition to the cases quoted by Dr Van by Dr Delavan in the Annual of the Universal Med ical Sciences, just published fore so many varieties of acute tonsilar inflammation, Pharmaceutical Association it is idle to vaunt any one remedy as being suited to nually the result of their joint labors " The strong solution of nitrate of silver

the process, but had failed in other forms of inflammation He was unable to state whether the virtue of the silver salt was in its astringency or in its germicide power In tonsilotomy for hypertrophy it is, according to the experiments of Zuckerhandl, impossible to wound the internal carotid without cutting the wall of the pharynx

DR SEILLR, in closing the discussion, said that the differentiation between the soft and scirrhous varieties of hypertrophy was easily made by the sense of touch, the former being soft and doughy, while the latter was hard and cartilaginous, and never occurs before the age of puberty. He believed that an initial lesion of syphilis upon the tonsil was never in-This was owing to a poverty of submudurated cous connective tissue An early diagnostic sign is glandular involvement at the angle of the jaws. The much vaunted alkaline treatment of acute tonsillitis with bicarbonate of soda or borax had in his experience given no results greater than a temporary al-The only abortive treatment leviation of the pain with which he had had success was that mentioned by Dr Wolff There is no doubt that hypertrophy of the tonsil does sometimes disappear with the advancing age of the patient This is due to a physiological atrophy of the glands The periodical attacks of acute inflammation may be prevented by a proper tonic treatment, attention to hygiene, and particularly by ablutions of the neck and chest morn-

MEDICAL SOCIETY OF THE STATE OF PENNSYLVANIA

Held at Philadelphia, June 5, 6, 7 and 8, 1888

TUESDAY, JUNE 5-FIRST DAY

The thirty-ninth annual meeting of the Medical Society of the State of Pennsylvania was called to In cases of acute tonsilitis the diagnosis is rendered order by The President, Dr R J Levis, of Philadelphia, on June 5

Prayer was offered by the Rt Rev O W Whitaker, DD, Bishop of Eastern Pennsylvania

The Address of Welcome was delivered by Dr John H Packard

After reports of officers and committees had been On the other received and other routine business transacted, the

"That the censors of the appropriate district or districts shall have power to determine whether a resident of one county shall be entitled to become a At the member of an adjacent County Society, which may

"The Committee on Pharmacy shall consist of five number of the household developed similar symp. members, to be appointed annually by the President, whose duty it shall be to consider all matters pertainsant of syphilitic moculation, are a number collected ing to pharmacy, and who shall be empowered to represent this Society in conference with a similar There being there-|committee to be appointed by the Pennsylvania They shall report an-

had in the speaker's hands seemed to abort the attacks of speaker's hands seemed to abort the attacks of speaker's hands seemed to abort the attacks of recurrent quinsy, or had at least modified tion on which was postponed until Wednesday

Resolved, That a committee of five be appointed by the President to secure the cooperation of County Medical Societies and individuals interested in the subject, to urge upon the State Legislature the enactment of a law essentially identical with that proposed by this Society and favorably reported to the House of Representatives at the last session of the Legislature

AFTERNOON SESSION

The first business was the

ADDRESS IN HYGIENE,

by Dr Traill Green, of Easton

He referred to the great importance of pure air and the necessity of providing adequate ventilation in public and private buildings The importance of bathing was also alluded to, and the necessity of keeping cellars perfectly clean was insisted upon The fear of suffering in the hour of death was then considered, the speaker holding that this fear was rarely realized Even in true croup death is accompanied by stupor which prevents suffering In regard to the fear of the possibility of being interred before life has become extinct, the author stated that a careful investigation had shown that there was not a well authenticated case in which this had occurred.

The dread of being eaten up by worms after burial was referred to An inquiry made among those whose business is connected with cemeteries, etc, shows that worms are never seen in bodies buried in the ground Worms are never seen more than one foot below the surface

DR EDWARD R MAYER, of Wilkesbarre, then delivered the

ADDRESS IN MEDICINE

The main portion of the address was devoted to a consideration of intra corporeal antisepsis, to which the author attached considerable value He had for a quarter of a century employed the sulphites had employed these apparently with success as prophylactics in scarlet fever, measles, diphthena and Gastric and intestinal antisepsis have proved of service in gastro-intestinal affections value of antipyretics and analgesics was then briefly referred to

Dr Hugh Hamilton, of Harrisburg, read a paper entitled The Chemical Factor in Disease

DR WILLIAM PEPPER then read

A CONTRIBUTION TO THE CLINICAL STUDY OF ALBUMINURIA

The paper was based on the records of the chemical study of the urine in the cases occurring in his private practice during the past eight months The examinations had been made by Dr J P Crozier Griffith The total number of cases was 239 Of this number albumen was not found in 96 cases The number in which albumen was found, continuously or at some period, was 143 there must be some forms of albuminuria not signifi- of foreign authorship are recommended, only 157 cant of organic disease of the kidneys In 80 of the American works are advised Reference was made

cases in which albumen was found, its presence was capable of explanation from the presence of pus or In many cases, however, it was difficult to blood decide that the quantity of blood, pus, or other accidental addition to the urine was sufficient to explain the amount of albumen found In 41 cases the pres ence of albumen could not be explained in this way, but yet in none of these could casts be found, al though looked for with great care In only 22 cases of the 143 were casts found

DR FRANK WOODBURY, of Philadelphia, read a paper on

THE EFFERVESCENT FORM FOR THE ADMINISTRATION OF CERTAIN REMEDIES

Attention was called to the fact that the last Pharmacopœia contained only two preparations intended to be administered in effervescent form liquor magnesii citratis and magnesii citratis granula Sparkling wines and malt liquors owe most of their palatability to the excess of acid which they Modern works on therapeutics say very little with reference to the action of carbonic acid gas as a medicinal agent It plays as important a part in the animal as in the vegetable economy Effervescing preparations were much employed by practitioners of a generation ago The effervescing form of medication affords a valuable means of ad ministering nauseous and disagreeable medicines Small quantities of alcohol are much more stimulat ing when given in the effervescent form than in the shape of spirits Malt liquor is, when properly given, a better hypnotic than bromide of potassium. It is useful in gastralgia or nausea, and in renal colic It has been found useful as a food and stimulant in children suffering with diphtheria Effervescing draughts are useful in fevers, being grateful to the patient and tending to reduce the temperature and favor the action of the skin In local affections of the digestive tract these agents are commonly resorted to In true migraine they may be given with the addition of a small quantity of deodorized tincture of opium

The author concluded the paper with the hope that the next committee of revision of the Pharma copœia might be induced to extend the list of gran ular effervescent salts and, if possible, establish uni form and standard formulæ for the carbonated and other mineral waters, both natural and artificial, that are now so largely used by the profession and the public

WEDNESDAY, JUNE 6-SECOND DAY

THE PRESIDENT, DR R J LEVIS, then delivered the President's Address

THE TRADITIONAL ERRORS OF SURGERY

Prejudice has done more to perpetuate error than any other cause American text books have now reached such a high position that it is necessary to rely to but a slight extent on foreign authorship, yet As a rule, the test employed was an examination of the announcements of seventy two It is therefore evident, he said, that regular medical colleges shows that, while 186 books

anatomy, largely the result of tradition

Very few great advances have been made in medicine without being subjected to the opposition of prejudice No sadder instance of traditional prejudice can be found than that shown by the opposition and long probationary trial of ovariotomy The tardy recognition of the importance of antiseptic surgery is a since its introduction by Lister The tendency to the complication of surgical instruments and appara tus was next considered An instrument is rarely delphia made straight if it is possible to make it crooked

Other traditional errors referred to were delay in delphia the operative treatment of depressed fractures of the skull until symptoms appear, delay in the operative phia. treatment of strangulated hernia until inflammation has appeared, the failure to recognize the distinctly local origin of certain malignant growths and the possibility of their eradication by thorough operation, ignorance of the fact that the tourniquet may well be discarded in favor of the use of the elastic bandage, the reliance on styptics to the disregard of more efficient means of checking hæmorrhage

Dr A Lowry Sibbet, of Carlisle, Pa, then read A Brief Review of the Decisions of the Courts concerning the Registration Act of 1881

Dr. John H Packard made some remarks on

THE PROPOSED STATE BOARD OF MEDICAL EXAMINERS

The speaker stated that there existed a committee of this Society charged with perfecting a plan and urging the establishment of a State Board of Medical Examiners He had grave doubts of the expediency of this, and criticised the provisions of the proposed Objection was made to the provision for a mixed board of regular and irregular practitioners The proposed bill says that no one shall be excluded or rejected because of his or her adhesion to special This was clearly in opposition to the Code of Ethics of the American Medical Association

DR L F FLICK, of Philadelphia, then read a

THE CONTAGIOUSNESS OF PHTHISIS

It was held that phthisis was contagious, and the evidence bearing upon this view was offered in detail, and the objections urged to this idea were considered

Dr. Given stated that he had had fifteen years' experience as physician to various Indian agencies in the Southwest Very little rehance was to be placed upon published statistics He had found that among the most degraded tribes of Indians phthisis was quite common, but as they became more civilized the disease decreased, and among those who had some white blood it was at its minimum

DR EARLY, of Fayette Co, in a practice of fortythree years, had never seen any evidence of the contagiousness of phthisis

Dr. Thomas J Mars, of Philadelphia, held that the evidence advanced by Dr Flick was not sufficient to prove the contagiousness of the disease

investigations on this subject showed that there was tube inserted into the esophagus

to want of thoroughness in the teaching of practical increasing evidence of the strict inoculability of

AFTERNOON SESSION

REPORT OF NOMINATING COMMITTEE

President—J B Murdock, Allegheny

Vice Presidents-L H Taylor, Luzerne, Benj discredit of the time, nearly 30 years having elapsed Lee, Philadelphia, W W Dale, Cumberland Co, W S Rowland, York Co

Permanent Secretary-Wm B Atkinson, Phila-

Recording Secretary—Charles W Dulles, Phila-

Corresponding Secretary—J H Musser, Philadel-

Treasurer—O H Allis, Philadelphia

Committee on Publication—Drs Edward Jackson. G W Guthrie, S H Gamp

DR THEOPHILUS PARVIN, of Philadelphia, then delivered the

ADDRESS IN OBSTETRICS

The first portion of the address was devoted to consideration of the recent advances made in the use of electricity in obstetrics and diseases of women Electricity in the induction of premature labor has been recommended, but has only a limited value and usually must be supplemented by other means to secure full dilation Electricity has been used with success for the destruction of the living fœtus in extra-So far no unfavorable result has uterine pregnancy followed the use of the faradic current Such favorable results have not followed the use of the galvanic The day is, however, coming when extrauterine pregnancy will be treated by abdominal section as soon as recognized

The faradic and galvanic currents have also been found of great service in the treatment of pelvic cel-

lulitis and fibroid tumors

The suggestions made with reference to the treatment of placenta prævia were spoken of The author concluded that the proper plan was to pursue expect ant measures when there is no severe hæmorrhage If there is serious bleeding premature labor should be at once induced If hæmorrhage occurs after the viability of the child, labor should at once be brought Probably the best method is to use Barnes' hydrostatic dilators with detachment of the placenta as recommended by Barnes

The use of antiseptics in midwifery was insisted Reference was also made to the results obtained by the improved Cæsarean operation paper closed with an earnest protest against the indiscriminate performance of operations for the removal of the ovaries

Dr. Joseph Price and Dr C F Penrose repeated the experiments of Dr N Senn showing the

RECTAL INJECTION OF HYDROGEN GAS AS AN INDICA-TION OF INTESTINAL WOUNDS

Experiment 1 -A dog was etherized, and the gas DR E T BRUEN, of Philadelphia, thought that injected in the rectum was ignited at the end of a

Experiment 2—A stab wound was made in the upper portion of the small bowel The gas appeared at the abdominal wound and was ignited at the end stools, amelioration or disappearance of diarrhea, of a tube inserted into the opening

Experiment 3 - A gunshot wound was made and its existence demonstrated in the same way

DR M PRICE, of Philadelphia, reported a successful case of

REMOVAL OF THE RIGHT KIDNEY FOR PISTOL-SHOT WOUND,

in a girl of 14 years The ball also passed through the right lobe of the liver, and the convalescence was complicated by numerous abscesses in the track of this wound

DR JOHN B DEAVER, of Philadelphia, read a paper on

NEPHRECTOMY FOR MORBID GROWTHS

After referring to the forms of morbid growths which involve the kidney, and to the history of the operation, he described a case in which nephrectomy was performed for a tumor of the kidney which proved to be a carcinoma of the medullary type The kidney was 8 inches in length and 5 inches transversely The patient died twenty-four hours after operation from shock The following conclusions were presented

- I Sarcoma in children should not be subjected to operation
 - 2 Sarcoma in adults should be operated on
- 3 Carcinoma in adults, unless seen early by the surgeon, contraindicates operation
- 4 Malignant growths, in the majority of cases, should be removed by abdominal section
- 5 Benign growths of the kidney are cases for lumbar operation If too large to be removed entire, they should be removed by sections, the pedicle being first ligated

Dr J H Musser, of Philadelphia, read a memorandum of the Life and Character of Benjamin Rush DR WM F WAUGH, of Philadelphia, then read a paper on

THE SPECIFIC TREATMENT OF TYPHOID FEVER

The speaker had used, since 1881, in the treatment of typhoid fever, the benzoate of ammonium and of sodium as first recommended by Klebs had continued these remedies until nine months ago, and he thought that they had been of benefit ing 1887 he had used the sulpho carbolate of zinc in the treatment of summer complaint in children The different forms of disease classed under this head are almost certainly due to a specific microbe grain doses were readily given to children in their The use of this remedy was followed second year This experience led him to Journal by marked success employ the sulpho carbolate of zinc in the treatment of typhoid fever Twelve cases only had been treated Three cases were diagnosed by two or more physi-In these the symptoms cians as incipient typhoid promptly disappeared under treatment, so that there The diagnosis in the is doubt as to the diagnosis remaining nine cases was undoubted One of the cases, admitted in the third week after repeated hæmorrhage, died The others recovered The ad-

ministration of the drug was followed by relief of gastric disturbance, disappearance of fetor from the cessation of hæmorrhage, lessening of tympany and reduction of temperature two or three degrees

DR T D DUNN, of West Chester, read a paper on

THE HYPODERMIC USE OF HYDROCHLORATE OF CO CAINE IN MIGRAINE AND SPASMODIC ASTHMA

The speaker had used this drug in his own person and in the case of others in the treatment of sick headache with satisfactory results He had used it in doses of one half to three-fourths of a grain. In spasmodic asthma, combined with one-twelfth to oneeighth grain of morphia the results had been immediate and satisfactory, and unattended with the nau sea usually produced by morphia

In the discussion which followed attention was called to the dangers attending the hypodermic use

of cocame

DR E A WOOD, of Pittsburgh, read a paper on ARTIFICIAL DIGESTION AND ARTIFICIAL PEPSIN,

protesting against the routine employment of artificial pepsin in all cases of dyspepsia without reference to the cause of the indigestion or to the seat of the process Pepsin was useful in only certain definite forms of dyspepsia

(To be concluded)

DOMESTIC CORRESPONDENCE

THE RELATIONS OF THE JOURNAL TO ILLI-NOIS AND CHICAGO

A Letter to the Editor of the Philadelphia Medical and Surgical Reporter

Dear Sir —In a recent issue of the Medical and

Surgical Reporter you say

"I hear a great deal of complaint that THE Jour-NAL is not what it was intended to be, namely a substitute for the volume of Transactions complain that the proceedings of the Association are not properly reported in The Journal, and that the papers are not published in regular order or according They say here that it is to any well arranged plan too much filled with the proceedings of the Chicago and Illinois societies, and that papers read at the meeting are pushed aside to make room for papers which have not been presented to the Association at all, and which were written long after the ones which they have displaced "

As a member of the American Medical Association you have an unquestionable right to criticize THE Courtesy to THE JOURNAL and to the members of the Association demand, however, that such criticisms should be made first directly to the members of the Association through the pages of THE JOURNAL, and not in another paper unless your communication is refused space by the Editor of THE JOURNAL Something more than courtesy demands that your criticisms, wherever they may be published, be founded on fact, and that, even it they

¹ In Cincinnati

be unfriendly, they be just and not misleading While acknowledging your right to criticize, I claim the same right to investigate the grounds of your criticism, and in the proper place—the pages of THE JOURNAL

I was in Cincinnati at the meeting of the Association, but heard no such complaints as those you mention. Possibly my facilities for hearing are inferior to those of some others, but I heard the opinions of a large number of members in regard to The Journal I certainly did not hear any complaint "that The Journal is not what it was intended to be, namely, a substitute for the volume of transactions." As I understand it, The Journal was intended to more than substitute the volume of Transactions. Nor did I hear any complaint that The Journal is too much filled with the proceedings of Chicago and Illinois societies.

Now let us see by an examination of the departments of Volume IX, July-December, 1887, of The Journal, whether your criticisms are fair and just I take several departments so as to show that your criticisms not only do not apply to the proceedings of Chicago and Illinois societies, but do not apply to any one of four departments of The Journal

ORIGINAL ARTICLES-VOLUNTARY

		Per cent	No	Per cent.
711	No	to total	pages	to total
Illinois,	13	23 21	39 45	25 45
D C	9	16 07	18 2	13 16
Indiana	7	12.5	9 75	7 01
Germany	6	10 71	21 79	15 67
Pennsylvania	4	7 14	116	15 67 8 34
Virginia	3	5 35	7 55	5 43
Michigan.	3	5 35	5 65 2 8	4.06
Louisiana	2	3 57	28	2 01
9 States1	r each	ī 78	2 51 (average) 18 (average)

From this it is seen that Illinois furnished only four more voluntary original articles than the District of Columbia

In taking account of the Association papers published in Vol IX it must be remembered that these papers were read at the meeting in Chicago, and it would be only natural that Chicago and Illinois would turnish a larger proportion of these papers, than they would at more distant meetings

ASSOCIATION PAPERS

TII		Papers	Pages
Illinois		17	41 65
Ven York		10	48 75
Pennsylvania		0	16 45
Michigan		9 6	
Missouri		U	² 3 7
T_ 1		4	14-25
Indiana.			ıi
Kentucky		4 3 3 3 3 3 3	10 75
Massachusetts		2	S 7
Vinnesota.		Ş	3 7
Tana		3	8 2
Tennessee		3	8.45
Maryland	_	ž	76 33
kansas	*		16 5
Iowa		2	3
		2	4
Sother States		r each	.7
District of Columbia			25
or Columbia		T	4.75

From this table it is seen that while Illinois fur-

(Colorado kansas, kentucky Massachusetts, Missouri New Jertey, tew York Texas Wisconsin) (California Georgia Arkansas Yew Jersey Louisiana, Ohio Rhode Island Wisconsin)

nished more papers than any other State, it furnished fewer pages than New York, and while the Illinois papers averaged 2 45 pages each article, the averages for New York, New Jersey, Rhode Island, Maryland and Massachusetts were above this

Now let us compare local society reports correspondence, and miscellaneous items in Vol IX

LOCAL SOCIETY PROCEEDINGS

Pennsylvania	31 52 pe	r cent	of total
Illinois	26	44	**
District of Columbia	18 91	**	**
Missouri	13 05	"	66
Massachusetts.	10 21	4 6	44
Atlantic States	59 54	"	"
Western "	39 05	6	"

CORRESPONDENCE

Foreign	57 5 pe	r cent
New York	20	"
Illinois	6 25	46
Indiana	٤Ť	44
District of Columbia	2 5	11
Iowa	2 ξ	44
Pennsylvania.	2 5	"

NEWS AND MISCELLANY

General	32	р	er cent
Foreign	13	-	**
Illinois	10	9	46
Massachusetts	10	9	"
Michigan	8	7	"
New York	S	7	5.6
Pennsylvania	5	ī	6.6
Ohio	2	r	66
Other States less than 2 per ct each			
Eastern States	24	.7	66
Western "	23		"

In Vol 1X were published a total of 256 items of original articles, society reports, and correspondence, as follows

Domestic	214
Foreign	42

The distribution by large cities (American) was as follows

Eastern

1 New York 23 = 8 98 2 Philadelphia 23 = 8 98 3 Washington 21 = 8 2 4 Boston 9 = 3 51 5 Pittsburgh 4 = 1 56 6 Baltimore 2 = 0 78	
S2 = 32 01	"

An average of 13 66 each

Western

r Chicago 2 St Louis 3 Indianapo		47 = 1835 8 = 312 5 = 195	**
	_	60 = 23.42	

Average 20 each.

TOTAL ITEMS-BY STATES

Eastern3

	U/ 18		
	Pennsylvania	30 == 11 71 per cer	ıt
	New York.	28 == 10 93 "	
	Massachusetts	9= 351 "	
4.	Virginia	5 == 195 "	
		72 = 2S.12	

(3 Excluding D C. and 4 States giving less than I per cent.

Western	
I Illinois 2 Indiana 3 Michigan 4 Missouri 5 Iowa 6 Wisconsin	$57 = 22\ 26\ per\ cent$ $11 = 421$ " $11 = 421$ " $9 = 351$ " $7 = 273$ " $6 = 234$ "
FC	101 = 3945

If to the four Eastern States we add the District of Columbia, as should be done, the total is 93, and the Eastern percentage increased to 36 32 table shows that 4 Eastern States have an average percentage of 7 03, as compared with the Western average of 6 57

On summing up, then, we get the following page percentages

Eastern States

Original articles—voluntary "—Association (7 Society proceedings—(local) Correspondence News and Miscellany	States)	33 po 42 64 59 54 25 27 5	er cent
Western States	Average,	37 53	**

Western States

Original articles—voluntary "—Association Society proceedings (local) Correspondence. News and Miscellany	40 per cent 44 22 " 39 " 14 11 " 23 08 "

Average, 32 22

Europe, 35 items, 13 67 per cent of total Therefore, when we see the District of Columbia contributing almost as many voluntary original papers as Illinois, New York sending almost as many Association papers to the Chicago meeting, and giving 14 per cent more correspondence than Illinois, Pennsylvania furnishing 6 per cent. more society reports, and Massachusetts as much news and miscellany, it appears-and is a fact-that your criticism was both unfair and unjust. Such is likely to be the case when one neglects to investigate the foundation for his notions before he publishes them

In Vol X, up to the No for June 2, 1888, I find 72 voluntary original articles (not Association articles) These arrange themselves as follows

-		
Pennsylvania	No 17	Pages 55 7
Illinois	15	33 / 41 15
District of Columbia	12	
Massachusetts	• • • • • • • • • • • • • • • • • • •	34 7
Missouri	6	23 7
Ohio		115
Iowa	4	14 2
New York	4 3	69
	I	25
Indian Territory	I	29
Rhode Island	I	3 5
Syria	I	Š
Virginia	I	2
West Virginia	I	I 45
Wisconsin	1	19
w	No	Pages
East of Alleghanies	40	122 1
West of	30	78 <u>55</u>

In Vol X, up to June 2, are reports of 17 medical societies, covering 142 pages, as follows

Į			
	Pennsylvania - Illinois District of Columbia Massachusetts Missouri Ohio Maryland California	Societies	Pages 46 4 40 95 21 5 13 5 13 9 4.1 9 45 12 3
	Or, East of Alleghanies West of	No 11 • 6	Pages 90 S5
	IA2 I Dages gives an	• 0	51 25

142 I pages gives an average of 8 35 pages for 17

The averages are as follows

5 Pennsylvania societies	
3 Illinois	9 28 each
3 Maryland "	13 65 "
2 Massachusetts "	3 15 "
I Ohio Society	675 '
I California "	41 "
I Missouri "	12 3 "
r District of Columbia Society	139 "
. Columbia Society	215 "

Thus it will be seen that the pages of THE JOURNAL. are not so full of Chicago and Illinois as of Pennsylvania and Philadelphia society reports, and that the Chicago and Illinois societies stand third on the pageaverage list

After all, is it not most natural that Chicago and Illinois should furnish a larger proportion of material to THE JOURNAL than any other city and State? Every journal, whether private property or owned by an Association, must depend upon its own city and State for a large proportion of its material Is it to be supposed that THE JOURNAL would draw as much material from Boston or New York as from Chicago? There are great weekly papers published in those cities, much older than THE JOURNAL Can THE JOURNAL hope to compete with your Reporter for Philadelphia and Pennsylvania material? If Illinois and Chicago writers send as good material as those of other States, should they be told that they must move into some other State so as to equalize matters?

You complain, practically, that the papers read before the Association are not published in a lump, and to the exclusion of voluntary papers Suppose this was done, would not voluntary contributors cease sending material to THE JOURNAL, so that in a short time THE JOURNAL would exist for a few months in the year, and then become torpid until the next meeting of the Association? One of the impossibilities of this life is eating one's cake and having it

You will probably admit that voluntary papers may be, and in many cases are, as valuable from a scientific standpoint as the papers contributed through the Sections of the Association From 2 business point of view, then, would it be wise to reject good voluntary papers, which would go to other journals, and displease the authors to the extent that they would first cease contributing to THE JOURNAL, and then cease subscribing to it? Further more, THE JOURNAL would thus get the name of a "close corporation paper," run solely in the interest of the men that read papers at the meetings of the Association each year Had The Journal been

Or,

begun on this principle it would have died in its kill it I have no doubt that many who pretend to be friends of The Journal would rejoice to have it contingency that need not be considered, as shown by the success of THE JOURNAL If it had not found favor with the profession, and such as no other American journal has ever had, it would not have been necessary to enlarge it by 4 pages an issue last July, nor would it be necessary to add 4 more pages an issue after June, 1888

Finally, do you not think that in case you make best I To be sure of your ground, and not make ² To publish your critistatements at random cisms in the proper place—The Journal—so that you may not unjustly prejudice those that do not read The Journal against it, and so that members of the Association may see your criticisms without stumbling upon them accidentally?

I remain, Very truly yours,

Wi G Eggleston

Chicago, June 11, 1888

STATE MEDICINE.

NATIONAL MARINE PATROL

The Secretary of the Treasury has issued the following circular, under the date of June 4, 1888

In order to assist local authorities in the maintenance of quarantine against the introduction of infectious diseases, as provided in section 4792, Revised Statutes, the act of April 29, 1878, and appropriation acts authorizing the President to maintain quarantine at points of danger, the President has determined to establish, by means of the vessels of the Revenue Marine, a national patrol of the coast of the United States, so far as it may be DISEASES OF MAN practicable under existing law and consistent with the performance of the other duties confided to that

You are accordingly directed to cruise, actively, with the revenue steamer ----, under your command, upon the outer lines of your cruising grounds, and to exercise special vigilance in speaking all vessels arriving from foreign ports, or from infected ports of the United States, directing your inquiries, first, as to the port from which the vessel sailed, and, crew, or that the vessel has left a port at which contagious or infectious diseases were prevailing, her master will be directed to proceed for examination of destination

tive to the inspection of vessels

If a vessel be found with sickness on board, or in

a foul condition, she will be directed to proceed to early infancy To begin on this principle now would the quarantine station hereinbefore indicated, and the Revenue Marine officer will immediately notify the proper quarantine officer In such case no person pursue this policy, and would attend its funeral with will be permitted to board the vessel until the med-But on the present policy a funeral is a ical officers in charge of the quarantine shall have given the usual permit

Should the pilot or master of a vessel, when hailed, report cases of recent or present sickness on board, the revenue officer will not board, but will send her immediately to quarantine,

Quarantine officers will be recognized as follows,

Medical officers or acting assistant surgeons of the any future criticisms of The Journal it would be Manne Hospital Service in charge of Gulf, South Alantic, Cape Charles, or Delaware Breakwater Quarantines, or any officer of said Service on duty at any port on the interior rivers, the Great Lakes or Pacific coast, and all quarantine officers acting under proper State or local authority

Special regulations to aid local quarantine authorities will be promulgated hereafter should occasion require

Dr Jerome Cochran, of the State Board of Health of Alabama, in a recent report has stated that the late epidemic of yellow fever in Florida was not introduced into the State by the usual trade chan-This confirms unofficial nels, but by smugglers statements received at this Bureau some weeks since Dr Cochran states that the last case was discharged May 11, and the last death occurred May 8, and that there have been active precautions taken to prevent the reappearance of the disease

JOHN B HAMILTON, Supervising Surgeon-General Mar Hosp Service

BOOK REVIEWS.

Data of their Nomenclature, Classification and Genesis By John W S Gouley, M D, Surgeon to Bellevue Hospital 8vo, pp 412 New York J H Vail & Co 1888 Chicago W T Keener

The objects of this book, as explained in the preface, are first, to urge the official adoption of a suitable basis for the nomenclature and classification of the diseases of man, second, to place before the medical profession certain propositions directed to an improved classification of diseases, and, third, to secondly, as to health of those on board at the time awaken the attention of teachers to the necessity of of departure, during passage, and at the time of ameliorating the nomenclature of medicine, pointing hailing, and should the information gained indicate out some of the many misused and improperly formed a condition of contagion or infection in the vessel or words that are now current, and proposing new terms for their consideration

In the opinion of the author a nomenclature and classification to be useful and staple should not only to the outer quarantine station provided for her port rest upon a proper foundation, but should be duly authorized by the whole profession of medicine, and The following regulations will be observed rela- he submits certain questions for discussion in and settlement by the International Medical Congress

The work is divided into five sections. The first

of the human body, a statement of the objects and can have his rational, sciencific treatment his ease scope of medicine, a classification of medicine, the mutual relations of medicine and surgery, an arrange
Arodyne. In the orner he asserted that several year and analysis are along the protocological propagation. ment of medicine into departments in accordance sive professional experience among a large and enlarge with the apparatuses of the human body, the definition and genesis of disease, a synopsis of the morbid that the prevalent opinion—anchantable and untractive popular are larger as a mistaken one. He get that the prevalent opinion—anchantable and untractive opinion—anchantable a suggestion of a groundwork for the classification of was a leading factor in is leave to sheld himself from team, diseases, and an analysis of some of the anatomical The second section reterms used in classification lates to the history, development, scope and significance of human nosography, and contains synopses of a considerable number of systematic arrangements of diseases, illustrative of the principles of nomenclature and classification, and also rules for the guidance of nosographers by Cullen, Parr, Young, and

The third section consists of a nosographical bibliography, chronologically arranged from the time of Felix Platerus

The fourth section is devoted to the elucidation of what is conceived to be a proper basis, character, and method of the nomenclature and classification of the diseases of man, and to the definitions of the terms of classification

The fifth and last section is intended as further explanations of the morbid states and morbid processes, and as an analysis of some of the terms used in general pathology, besides which it embodies a summary of the present state of knowledge of the bacteria, ptomaines, leucomaines, and "extractives," and indicates the relations borne to medicine and surgery by these microorganisms and toxic alkaloids of putridity, and, finally, remarks on the neoplasms and on their classification

Such is the scope of this work, a work that is a monument of patient, painstaking labor, and for which we fear the author will not be rewarded by an early recognition on the part of the profession, unless some effort be made to simplify matters at the Tenth International Medical Congress

MISCELLANEOUS.

THE AMERICAN ASSOCIATION FOR THE CURE OF INEBRI ates held its semi annual session in Brooklyn recently Several papers were presented. One, by Dr. T. L. Wright, of Belle fontaine, Ohio, on "Points Touching the Medical Jurispru dence of Alcoholic Inebriety," referred in large detail to the physical, mental and moral disabilities caused by alcoholic indulgence, and asserted that these were only the advance guard of permicious results

Dr C C Fite, of Knoxville, Tenn, offered a paper on "The Prohibition Question from a Medico Legal Standpoint," in which he redicted that long before prohibition becomes general, the vital issue—the prevention and cure of drunkenness will be reached by society regarding habitual indulgence in al-cohol as a disease and, denying the right of any individual to further a tendency, hereditary or acquired, toward the inevitable physical and mental damage which excess in drinking involves, insisting that he shall be protected—and with him those who, otherwise, might inherit the baneful effects of his excess-by treating and caring for him as are the insane, or the victims of e ner disease The paper was a logical, forceful plen for the

and claimed that a more misonal and right appreciation of i. situation—regard ng such matient, with certain exception, a creatures of conditions beyond control—would be most hely a against the protective confliction to untruth. Besides, a more liberal and correct opinion on this score would have an imporant bearing on their med co- early and treatment. In his second paper, Dr Mattison werred to the recent triumphs of analytical chemistry in giving the procession such valuable hypnotics as amylen hydrate and sulpholal, and, noting the far reaching value of any drug that will take the place of opiumwhich, while so great a blessing is so of en a bane-expressed his belief that the new anodyne, antifebria, was the richest ad dition of modern times to the therapeuties or pain

PORTRAITS OF DR C R AGNEW — It the last meeting of the Ophthalmological and Otological Section of the New York Academy of Medicine, the following motion was made and

"That a committee be appointed, of which the chairman of the Section, Dr David Webster, be a member, whose duty it shall be to obtain a good photograph of the late Dr Cornelius R Agnew, for the purpose of having engravings suitable for framing made from this. The right of issue and sale of such engravings shall be given to some first class publisher, if practi cable, if not, the committee shall offer them to the profession

In accordance with the above, a committee has been appoint Members of the profession who desire such an engraving, accompanied by an autograph signature, should send their names and addresses to the Secretary of the committee, Dr Charle H May, 640 Madison Ave, New York City, at once all such names shall have been recor who have quested a copy of the engraving will the cc the same, either by the publisher the matter in charge

OFFICIAL LIST OF CHANC DUTIES OF OFFICERS DEPARTMENT U S JUNE 15 1888 Capt Henry P Birminghan absence for one month 1885 Capt A V Cherbonnier of absence for four me S O 133, A bility

OFFICIAL LIST OF C OF THE U S NAV JUNE 16 1888 Surgeon Daniel McMu kohama, Japan, and Surgeon C U Gravatt and to hospital, Yo' P A Surgeon John M ıgan " Surgeon B S Macki Surgeon J B Parke wait orders

OFFICIAL LIST C OF MEDICAL PITAL SERVI 1888 Surgeon Walter . . mers, vice Surg disability J''
Surgeon C S 's days on account

Journal of the American Medical Association.

EDITED FOR THE ASSOCIATION BY N S DAVIS

PUBLISHED WEEKLY

Vol X

CHICAGO, JUNE 30, 1888.

No 26

ADDRESS IN SURGERY.

SOME RETROSPECTIVE AND PROSPECTIVE THOUGHTS ON SURGERY

Delivered at the Thirty ninth Annual Meeting of the American Medical Association Cincinnati, May 8, 1888

BY DONALD MACLEAN, MD,

OF DETROIT

CHAIR IAN OF THE SECTION ON ANATOMY AND SURGERY

Our generation has witnessed one of the most active and progressive eras in the history of that department of medical science to which the attention of this Section is especially devoted. It has occurred to me that a concise and candid statement of some of the impressions made upon my own mind and some of the conclusions at which I have arrived as the result of active experience, extending over a period of at least a quarter of a century, might not be altogether uninteresting to this Section, which has conferred on me the great honor of electing me its chairman, an honor which carries with it the responsible duty of delivering an address on the present occasion

The vastness of the subject and the shortness of the time at my disposal necessitate a brevity and conciseness of style which might easily be construed as implying a spirit of dogmatism, which is now, once well defined opinions and still be tolerant of those who differ from us, and no one could approve or admire the spirit of scientific skepticism more than So that it goes without saying that I freely and fully concede to every one the right to judge for himself how much or how little of what is here said he shall accept as true Any one who will reflect for a moment how often he has had occasion to modify his opinions on important surgical matters will surely hesitate a good while before venturing to be censorious toward those who fail to accept his views or his methods of practice Not only so, but as we look around us and observe the almost diametrically opposite views which authorities of equal eminence hold on the same subject, we cannot but feel that it is absurd and presumptuous for any one to attempt to dictate to his brethren in the profession what they shall accept as final truth in surgery

One thing is certain, that the progress of surgery during the last quarter of a century has been unpre-

the results of this wonderful period of activity, winnowing out whatever has proved to be false, misleading or unreliable, and giving proper significance and credit to the genuine and the permanent, is a profitable employment and a true labor of love for the scientific student and practitioner of surgery

Without claiming for myself any special fitness for this work, the mere fact of my election to this honorable office encourages me in the hope which I have expressed, that a frank statement of some of the opinions which my observation and experience have led me to form may be listened to with interest by my present audience Perhaps, too, the fact that I have been actively employed during almost the entire period of my professional life in the work of teaching surgery to large classes of medical students may add somewhat to the interest of such a summary of my views on a few of the great surgical problems of our day as I here propose to make

The marvelous progress of modern surgery in our time is commonly attributed to two great agents, namely, anæsthetics and antiseptics But with all due deserence to these, it should not be forgotten that they themselves are only part of the fruits of a great general movent all along the line of the natural sciences, and that advances in anatomy, chemistry, physiology, histology, etc., have contributed in innumerable ways to the progress of surgery, and it is no more than just that the great army of able and for all, emphatically disavowed It is possible to hold enthusiastic laborers in these collateral departments should receive adequate recognition for the services which they have rendered, directly or indirectly, to surgery Nor should the fact be overlooked that even before the beginning of the present surgical era, that is, before the introduction of anæsthetics, and long before antiseptics were dreamed of, surgery was a great scientific art, and many of the principles and the methods promulgated and taught by our fathers stand unchallenged and unchanged to this day those great minds who cultivated and practiced surgery without the aid of our "modern conveniences," it is impossible to concede too high a meed of praise The least we can do is to acknowledge with grateful candor the extent of our indebtedness to them

That the introduction of anæsthetics constitutes one of the most important events in the history of surgery is a fact generally conceded, and still it seems to me that, in trying to explain the rapid progress of our art in recent times, a mistake is often made in cedented To correctly analyze the methods and due to this For example, it is a common thing nowattributing to other causes a good deal that is really

a days to hear much, if not all the credit of the wonderful advances in the surgery of the abdomen, the surgery of the articulations, the surgery of the bloodvessels, etc, given to Listerism, or antiseptic devices Now, the fact is that antiseptics without anæsthetics could have had but a comparatively limited and insignificant field af usefulness, and before attempting to decide or define the true value of antiseptic processes, let us try to do justice to some of the other factors in this interesting problem

The introduction of anæsthetics at once enlarged the field of operative surgery, in the first place by enabling patients to undergo operative procedures which otherwise could not be endured, in the next place, by enabling many persons to cultivate and acquire operative skill and experience who, without the aid of anæsthetics, would have shrunk from the dread ordeal of performing a surgical operation troduction of anæsthetics inaugurated an era of unprecedented enthusiasm in the cultivation of every department of surgery And out of this, as a necessary and natural consequence, has come the splitting up of surgery into subdivisions which are now dignified by the name of specialties, as, for instance, ophthalmology, otology, gynecology, etc, all of which must still be included under the head of surgery The oculist or the gynecologist who is not a surgeon, in the largest and best sense of the term, is in great danger of becoming a charlatan

To the introduction of anæsthetics, more than to any other agency, is due the credit of this wonderful extension of the boundaries of modern surgery should not be forgotten that this great movement had not only started, but had made considerable progress, before the theories of Pasteur and their practical application to surgery by Joseph Lister were thought Perhaps the best illustration of this assertion is derived from the history of abdominal surgery Spencer Wells, Clay, Atlee, Peaslee, Dunlap and Keith, as well as others, had achieved world-wide fame as ovariotomists long prior to the advent of an-In his address on surgery to the tiseptic surgery British Medical Association in 1865, Prof James Syme spoke as follows in reference to the operation of ovariotomy

"The objections originally entertained with regard to both prognosis and diagnosis have been in a great measure removed through the careful discrimination of cases, while the operative procedure has acquired a corresponding degree of perfection, and the results are so satisfactory that the proportion of deaths does not exceed from 30 to 35 per cent. The most successful operator in Scotland is my friend and former house surgeon, Dr. Thomas Keith, who has operated in thirty-five cases and lost only nine of his patients."

In the United States and other countries to-day there are many ovariotomists who are honestly of the belief that by the use of strict antiseptics they possess an immense advantage over those ovariotomists of preantiseptic times. They certainly have the unspeakable advantage of the vast accumulations of the recorded experience of operators who, like those whom I have named, have been so careful and thorough in the publication of their cases, their obserough in the publication of their cases, their obserous mately appear that the sum and substance of the lite.

vations and their methods, and still, I ask, can it be truly said that the mortality of ovariotomy has, on the whole, materially lessened since Professor Syme uttered the words which I have just quoted? When full and fair credit is given to the other aids which have come to the profession as a whole, through increase of knowledge and enlargement of experience during the period of wonderful surgical activity from 1865 to 1888, how much room is left for credit on behalf of antiseptics? In our reflections and calcu lations on this point it is only just to note the remarkable fact that among the most emmently successful of the abdominal surgeons of to day we find men like Tait, Bantock and others who claim that, so far as their experience in abdominal surgery goes, antiseptics have been weighed in the balances and found wanting, and by whom they have been de nounced as a delusion and a snare It has been customary of late years, when a successful operation of a new or exceptional nature, such as resection of intestine, cholecystotomy, splenectomy, etc, is recorded, to claim the result as another argument or fact in support of antiseptic surgery And it may be that the belief in the marvelous advantages of such safeguards as it is supposed to furnish has inspired confidence beyond that which our increased knowledge of pathology, our improved dexterity in manip ulation and our faith in the generally recognized and approved principles of surgery independently of antiseptics can afford us But is it not just possible that too much value has been attached to the influence of antiseptics and too little to the numerous other factors which enter into this complex and manysided problem? Is it not just possible that even if Listerism had never been heard of, surgeons would by this time or, at all events, sooner or later, have come to appreciate the immense value of perfect surgical cleanliness and conceded to it its true position in relation to all the other essential requisites of successful operating, such as tenderness of manipu lation, efficient drainage, healthy surroundings, judi cious dieting, conservation of blood, prevention of shock, wise and skilful nursing, etc? All honor to Lister as the great apostle of surgical cleanliness, no matter what the ultimate fate of his theoretical views The germ theory of disease as applied to may be surgery may be materially modified, or even proved to be in certain important respects erroneous, the use of carbolic acid, bichloride of mercury and the other germicides may ultimately come to be regarded as worse than useless, and all the complicated paraphernalıa which constitutes antiseptic surgery declared un necessary and absurd, and still the fact must remain that, whether right or wrong as a matter of abstract scientific truth, the theories and the methods of Lister have done much to encourage the progressive mod ern surgeon in his righteous ambition to carry his beneficent labors to the furthest limit of possible The simplest and most obvious truthare often the most difficult of apprehension and application by those most interested in their effect. It will be a most striking and wonderful exemplifi cation of this old and true saying if it should ultiis comprehended in the ancient scriptural admoni ultimate fate of the germ theory in surgery may be, carbolic acid, bichloride of mercury, etc, may be, one thing is certain that anything like a return to the old, loose and careless methods, as regards cleanliness, of conducting surgical operations and of dressing surgical patients is absolutely impossible, and for this the world will always feel grateful to Joseph Lister

AN ESTHETICS

There are few subjects of surgical interest that have been so freely written about and discussed in our day as an esthetics

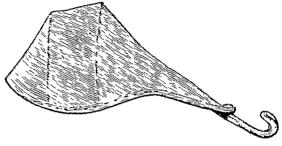
Even the briefest review of this vast field of surgical literature would lead me far beyond the scope of this address I merely refer to it for the purpose of declaring that, after very careful and respectful consideration of the views of those who have written and spoken on the subject, and after impartially testing the different substances recommended, I find myself irresistibly forced to the conclusion that, upon the whole, for all general purposes, chloroform possesses superior advantages My own experience with it induces me to believe that, when carefully administered in suitable cases, it is little if at all more dangerous than other anæsthetics, and its advantages in other respects are too well known to require further illustration on the present occasion Death under anæsthetics is in every case a great and shocking catastrophe, but when it occurs during some comparatively trivial procedure the circumstance is appalling Fortunately, in the progress of surgery of late years, local anæsthesia by ether spray, cocaine, etc., has been found to constitute an efficient and altogether safe substitute in a large field of minor though painful operations That in the near future other and better general anæsthetics than any yet known may be discovered, is surely not an



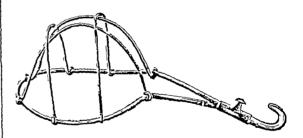
No z -Chloroform Dropper

unreasonable expectation, when we consider the

work of this great surgical prophet and his disciples medical science. As a justification for my own faith in the safety and general efficacy of chloroform, pertion, "Wash you, make you clean" Whatever the haps I may be allowed to state that it is very nearly thirty years since I commenced using it, and so far whatever the fate of the so called germicides like no accident that could ir any way be attributed to its use has occurred to disturb the early impressions as to its trustworthiness made upon my mind by the eloquent teachings of James Young Simpson and the no less powerful utterances and example of James Syme To the use of the simple little apparatus which I here present I have come of late years to attach great value in the administration of chloroform



No 2 - Chloroform Inhaler



No 3-Frame of Inhaler, uncovered

THE MICROSCOPE IN SURGERY

Who of us is unable to recall the time when great things were hoped for by surgeons from this truly wonderful instrument, which has done so much in other departments of science? Who does not recall the confident predictions indulged in as to what would be accomplished by its means in the diagnosis and classification of tumors, in the diagnosis of the different morbid fluids, and so on? Can it be claimed to-day that these hopes have been realized, these predictions fulfilled? I fear not How much has it done to enlarge our knowledge of the essential characteristics of different kinds of pus? Can we by its means distinguish with perfect certainty between the pus of gonorrhea and the pus from a chancre or any other source? In short, has the microscope added anything to our powers as practical surgeons so far as this and other common surgical fluids are concerned?

In the diagnosis and classification of tumors great things were expected of it, and it was also expected that by its means the prognosis of morbid growths would become a matter of actual and unmistakable demonstration That much information interesting ceaseless energy of earnest and brilliant students and to the scientific surgeon has been obtained as the experimenters in this as in all other departments of result of vast efforts in the investigation of the ori-

gin and the essential nature of morbid growths no held out the least shadow of hope in such a case one can deny, but for the practical purpose of deciding whether or not a given tumor should be the efficacy of this agent in favorably affecting the removed by operation, or for the purpose of determining the prognosis in relation to the question of confirmed by further experience, is certain to be re return or the danger of general infection of the system, I have not been able to persuade myself that of this department of surgery the microscope has added much if anything to our We must still depend upon the ordinary clinical signs and symptoms, the anatomical relations, and the facts of its history in determining our views as to the true nature and the best treatment of a morbid growth

In certain departments of practical medicine nearly related to surgery, such as the examination of urine, etc, the microscope is invaluable, but to the ordinary practical surgeon its usefulness has not equalled the expectations of its early enthusiastic advocates

ELECTRICITY IN SURGERY

Electricity is another modern addition to the armamentarium of the practical surgeon, and although it has in some directions proved disappointing, still it can, I think, with truth be claimed that when used for suitable purposes, it has demonstrated its right to much during the winter and she suffered from shootthe respect and gratitude of the profession harm has been done and much unfair prejudice periods excited against this useful agent by the absurd and found to occupy nearly the whole of the gland extravagant claims which have from time to time been made in its behalf as the result of inaccurate observations or unscientific deductions, and there is reason to fear that this kind of obstruction to the proper recognition of electricity as a surgical agent That certain forms and has not yet entirely ceased degrees of urethral and other strictures are capable breast of being remedied by electrolysis skillfully and carefully applied I am prepared to believe, but when we are told that all other methods of treatment of this large and important class of surgical cases are to be completely superseded, or nearly so, by this one, my belief is that our duty as rational practitioners is to suspend judgment

Cases of far-advanced, long-neglected stricture, with fistulæ in perineo and large deposits of dense, inflammatory tissue, will, in my opinion, still furnish a useful field for the operation of external perineal urethrotomy, an operation which I have performed with the most satisfactory results in a large number of cases which I do not believe would have yielded I performed the old operation of urethrotomy with- and a half inches in diameter, covered with fine out a guide in a case of complete occlusion of the sponge, the negative electrode a copper plate two urethra, the result of laceration from fracture of the inches square, covered with sponge The patient had passed all his urine through a permeal fistula for five years, not a drop having passed by the natural channel in all that time occluded portion of the urethra extended to a length The operation, in which of more than two inches I was assisted by my colleague, Prof Frothingham, and my brother, Dr A C Maclean, was a long and difficult one, but was crowned with absolute success tricity or any other method of treatment could have same application was made for the same length of

The testimony of Apostoli, Keith and others as to growth and tendencies of uterine fibroid tumors, if garded as marking a most important era in the history

In this connection the following very recent case appears to me sufficiently important and suggestive to give here in detail Mrs S G, at 18, residing at Matamora, Ohio, was admitted to the University of Michigan Hospital April 18, 1888 She is of German extraction Her father died in 1875 of acute consumption During his early life in Germany he appeared to have been in hospitals for treatment of tumors on arm and shoulder During latter years he suffered very much from rheumatism occasionally Seven brothers and sisters died in childhood in Ger many, cause of death unknown to the patient The children born in America are healthy Mrs G commenced to menstruate at 12 and has been regu lar since, was married in June, 1887 During the fall of 1886 she first felt a lump in the left breast, which was painful The swelling was about the size of a walnut and was movable. It increased very Much | 1ng pains, which were more acute at her menstrual On examination by me the tumor was was hard, nodulated, the nipple retracted, and, in short, presented every appearance of scirrhus Moreover a dense mass of considerable size existed Had this patient been a woman over in the axilla thirty years of age I should undoubtedly have recommended and performed amputation of the

The resemblance between this breast and many which I have amputated for cancerous disease, and which have been proved by ulterior investigation to The age of be malignant, was very striking indeed the patient was the only consideration which led me to entertain a hope that the prognosis might not after all be so grave, and that the tumor might be amenable to treatment by milder means, and I deter mined before doing anything else to make a fair trial of electrolysis with it For that purpose I requested my assistant, Dr George A Hendricks, to take charge of the treatment, which he did on April 19 The applications were made with positive electrode over the growths and negative over the sternum, the positive electrode being a circular copper plate one the sponges were wet with a strong solution of salt and before application the parts were well washed with On April 19 nine cells, seven miliampéres, alcohol were applied for ten minutes, on the 20th, 38 cells, 30 miliampéres, for twelve minutes, applied over the tumor Chloroform was given during these applications, as the patient could not tolerate them without anæsthesia On April 21, 12 cells, 10 mili On the same day the ampéres, for ten minutes

time over the axillary tumor making the skin of the chest sore, a larger one was made, of an oval shape, five by eight, covered with as hemostatic agents fine sponge On April 22, 38 cells, 30 miliampéres were applied for ten minutes over the breast and for the same length of time over the axillary tumor By this time the breast tumor was found to be reduced to a spherical nodule about the size of a walnut Contraction of the nipple had to a great extent disappeared On April 24, beginning with 9, increas ing gradually to 24 cells, for twelve minutes on breast and axilla On April 25, 26 and 27 the same application, on April 28, 30 cells, on April 29, 38 cells After this the skin over the breast ap smaller On April 30, 38 cells were applied over the breast and to the axilla On May 3 the patient was menstruating, and the treatment stopped for the present, but the growth by this time in the breast and in the axilla had almost entirely disappeared and the patient, considering herself cured, was most anxious to return to her home in Ohio, which she was permitted to do

In chronic enlargement of the prostrate in old men I think I see in this direction a gleam of reasonable hope for a class of cases hitherto regarded as

almost if not quite beyond remedy The value of electrolysis in the treatment of that common and important surgical condition knows an nævus or aneurism by anastomosis is a triumph of surgery which belongs to our own generation Previous methods of treatment, namely, excision, caustics, ligature, injection of astringents into the structure, are all inferior in every respect to the method by electrolysis I have used and have seen used every one of these different methods, and have no hesitation in giving the preference to electrolysis on the score of safety, efficiency and ease of applica-I here present for inspection a few photo graphs illustrative of a large number of cases of nævus, treated successfully by electrolysis at my public clinic

SURGICAL HÆMORRHAGE

Our generation has witnessed substantial advances in regard to the management of surgical hæmorrhage Its prevention during long and extensive operations by means of Esmarch's bandage is one of the most striking and important of these advances No surgeon would now like to dispense with this simple but truly valuable appliance

The aortic compressor, invented simultaneously by Pancoast and Lister, by which, with the utmost safety and ce tainty, the circulation through the lower half of the body may be absolutely controlled during pleasure, is another device in which, from actual experience in many urgent cases, I have come to have perfect confidence I am fully persuaded that no danger of injury to the abdominal organs is involved in its use

Catgut, and other animal ligatures, properly prepared, constitute another substantial improvement

The negative pole peculiar cases, is another step in the right direction They are dirty, irritating, and above all unreliable By 'means of acupressure Simpson and others claimed nearly if not quite as brilliant results in the healing of surgical wounds as the advocates of antiseptic surgery have since claimed for their methods Now a days, however, acupressure, notwithstanding the strong theoretical arguments in its favor may almost be said to be a deadi ssue

In regard to that interesting affection, aneurism, the revival of the old operation of Antyllus in certain suitable cases, and the restricting of the Hunterian operation to a somewhat more limited field of peared somewhat irritated, but the tumor decidedly usefulness, is a most striking and interesting improvement, for which the credit is mainly due to Prof Syme The achievements of this truly great surgeon in this department of surgery were sufficient to shed peculiar brilliancy over the closing years of his peculiarly brilliant career I hope I may be pardoned for suggesting in this connection that when the enthusiastic devotee of "all antiseptic precautions" heralds forth to day as an additional proof of the value of his method a successful case of ligature of an artery for aneurism, the remarkable fact should be remembered that Prof Syme, whose career was practically closed before antiseptics were discovered, ligatured the femoral artery for aneurism fifty-eight times without a single failure If there has been any corresponding record made since the introduction of those methods, I have not heard of it

The recently promulgated view that an artery may be securely ligatured by a broad animal ligature, without rupture of any of its coats and without the formation and organization of the classical coagulum between the point of ligature and the first branch, if true, is undoubtedly the greatest discovery relative to the surgery of the arteries that has been made in Such a revolutionary doctrine ought to be accepted cautiously and after careful observations on the human subject I am able to contribute one or two facts in its favor from my own experience. Two years ago I was compelled to ligature the common femoral artery immediately below Poupart's ligament, for urgent hæmorrage, the result of ulceration of the artery in connection with an obscure abscess which originated in the interior of the pelvis I used carefully prepared catgut ligature and with perfect success so far as the hæmorrhage was concerned patient, an old, worn out man, died some weeks afterward from a complication of diseases, but no trouble came from the ligature of this most dangerous of all the arteries Unfortunately, no post mortem examination could be obtained in this interesting case

Some months ago I was compeled to ligature the superficial femoral under circumstances of urgent emergency for secondary humorrhage from the popliteal artery, the result of a pistol shot injury inflicted some weeks before the case came into my Extensive burrowing of pus all through the tissues of the thigh had occurred, and the patient was nearly exhausted from septicæmia, from which death The abandonment of all the so called styptics, as the ultimately resulted nine days after the operation of per salts of iron, tannin, etc, except in very rare and ligature of the femoral On post mortem examination



No 1-Before operation



No 2-Before operation



No 3 -After operation



No 4 -Before operation



No 5 -After operat 52

by the microscope the artery was found securely ment there was no trace of a clot

These are not the only, though they are perhaps the most striking, cases in which I have been able to note the same state of affairs

I venture to relate here the following recent case of a bloodless operation for traumatic aneurism, which seems to illustrate more than one of the points mentioned in connection with this subject

F S, at 10 years, son of a farmer, residing at Calkinsville, Isabella county, Michigan, was admitted Arbor on the morning of October 19, 1887 two and one half months previously he was boring a hole with a pocket knife through a strip of pine wood, when the wood, proving softer than he exand his clothes and penetrated the thigh, making an artery was injured and dangerous hemorrhage ensued, which was controlled by pressure Upon admission to the hospital a considerable tumor was visible, occupying Scarpa's triangle, and over-lapping the lateral boundaries of that space The aneurismal brut could be heard with great distinctness all over the tumor, which, in short, presented all the charactenstic symptoms of aneurism The patient's father stated that the size of the tumor was rapidly increasing, but that the general health of the patient was good Pulse, 116, temperature 99° On October 20, in the presence of the medical class, Dr T J Sullivan assisting me, he was placed under the influence of chloroform, the aortic compressor applied, an incision made about two inches in length over the surface of the tumor, the aneurismal sac exposed, and freely opened, and the coagulated contents evacuated The compressor was then slightly relaxed, and the bleeding point by that means accurately determined The artery was cautiously freed from its connections, and strong catgut ligatures applied above and below the point of wound and cut In the primary incision two or three small vessels were divided, which were also ligated No special antiseptic measures were used, other than perfect cleanliness Suppuration was not altogether prevented The highest temperature was reached on the second day after the operation, when the thermometer under the tongue reached 103° this the temperature fell below 100°, and at no time afterward exceeded that point The case progressed favorably, and the patient was discharged cured on the 1st day of November, that 1s to say, just eleven days after the operation, and he has continued well to the present time The ligatures which were applied to the femoral artery were never heard from in any way

In contrast with the case just related, I desire to refer briefly to a case of traumatic aneurism of the common femoral artery, reported by myself in the New York Medical Record, for Jan 4, 1882 that case the wound was produced by a pistol shot, and was situated immediately below Poupart's liga- had the following history

The patient was a boy, æt 14 The acciclosed, the inner coats had not been divided and dent happened on April 28, and on October 10, of the same year I performed the Hunterian operation, placing a carefully prepared catgut ligature upon the Had there been a reasonable external iliac artery hope of the wound being in the superficial femoral as in the previous case, I should have performed the old operation, or had the external wound been unhealed or in any danger of opening up again, I should have felt compelled to treat the case as a wounded artery, and applied a ligature on the affected vessel above and below the wound As it was, the situato the University of Michigan Hospital at Ann tion of the scar excluded all hope of the superficial About femoral being the wounded vessel In the next place, the external parts were as perfectly healed as if they had never been injured, and the aneurism being comparatively small and well defined, although pected, the knife suddenly slipped through the wood in reality, a false aneurism caused by an external wound had come to correspond very closely to a incision about three quarters of an inch long ob-true aneurism, at least in so far as the question of liquely outwards and downwards The underlying treatment was concerned, so that the Hunterian operation seemed the best, and indeed, at that time, the October 31, that is twenty-one only alternative days from the date of the operation, this patient was dismissed cured In a similar case to-day, it would be at least justifiable to take into consideration the propriety of substituting the old operation for the Hunterian, as in the case of aneurism affecting the superficial femoral which has been described in a preceding paragraph of this paper

DISEASES OF THE JOINTS

The treatment of diseased joints has made solid and satisfactory progress in recent times Those intractable cases, to the pathology of which Sir Astley Cooper, Sir Benjamin Brodie, and others, devoted so much attention, and which they so unsuccessfully endeavored to cure by different forms of counter-irritation and constitutional treatment, are now successfully managed by physiological rest, pressure, extension, and counter extension, and especially by the operation of resection or partial resection own observation and experience have convinced me that this last method of treatment, that is, resection or partial resection, has a much larger field of usefulness, especially as regards the hip and knee, than has hitherto been generally believed A mistake is in my judgment, often made in postponing the performance of this operation until the disease has extended far beyond the limits of the articulation, and the case has become hopeless by any means other than am-So soon as a case of articular disease refuses to yield to a fair trial by the milder methods, the duty of the surgeon, in my opinion, is to open the roint and remove all of the diseased tissue By this course the danger to the life and the limb of the patient is reduced to a minimum, and the duration of the treatment materially abbreviated

In certain cases of congenital or acquired deformity of joints, beautiful results are possible by resection, as well as by subcutaneous osteotomy example, on March 15 last, a young man, F McM, æt 16 years, came to my public clinic on account of a very peculiar deformity on his left knee joint, which

The patient had malarial fever five years ago, which lasted for four or five months During convalescence, when attempting to walk, he noticed a weakness in his left knee, which appeared to bend beneath his weight This weakness increased steadily, and seven months before admission it became much aggravated No medical advice until six month's ago, when a doctor advised him to wear a splint for support, which he has since done tendency to luxation, however, continued to increase up to the time of admission when it was found to constitute a very unsightly deformity, and to almost entirely deprive the patient of the use of his limb In walking there was a plainly apparent subluxation of the head of the tibia outwards, so that the leg formed an angle of about 120 degrees at the knee-On March 22, he was presented at the clinic, placed under the influence of chloroform, and the ordinary operation of resection of the knee joint performed, a slice being removed from the articular surfaces of the femur and tibia, with the saw The bones were extremely vascular, but the hæmorrhage was speedily arrested by the application of hot The osseous surfaces and the edges of the wound were coaptated and secured with four silver wire sutures through the soft textures, down to but not including the bones The wound was covered with iodoform gauze, and supported with splints composed of folded newspapers well covered with cotton batting maintained by bandages Nine drachms of chloroform were used

On April 23, he was presented to the clinic The wound at that time had not been dressed for four resections of the joints, and have every reason to days, but very little suppuration had taken place The union between the bones was solid so that the limb could be lifted bodily by taking hold of the On April 24, a light plaster cast was applied by Dr Hendricks, and the patient walked into the clinical amphitheatre on his crutches, and was able to lean considerable weight on the affected limb He was then dismissed from the hospital, five weeks from the day of operation

In the treatment of the early stages of articular disease affecting the joints named, and especially the elbow and the knee, the plaster of Paris cast is, in my opinion, a useful appliance, but it requires much cautious judgment and careful observation in its

management

Iu any case of articular disease when the degeneration of tissue has extended, as it sooner or later does unless arrested by efficient treatment, beyond the limits of the articulation, inducing destruction of the medullary canal and other parts of the bones in volved, the only efficacious treatment is amputation, and under these circumstances I have in several instances successfully performed amputation One case in point, I had the even at the hip-joint honor to report to this Section, illustrated by a very striking specimen, at the annual meeting two years ago at St Louis

TREATMENT OF FRACTURES

had, for obvious reasons, a peculiar interest for the a comparatively new and very important principle of

practical surgeon, and in our generation, as in previous ones, much activity has been displayed, and much ingenuity exercised in efforts to improve methods and appliances for the management of these common and important surgical cases take a long time, and be a tedious and unprofitable task to describe, discuss or even enumerate the many suggestions and inventions which have engaged the attention of surgeons during the memory of those listening to me I will only take time to notice a very few of those which appear to me to be the most worthy of consideration here

The first of these is the improved and simplified methods of securing efficient, continuous extension, and counter-extension in the treatment of fractures, especially of the thigh, the most difficult and hazardous of all fractures so far as the surgeon's reputation is concerned The method known by the name of its inventor, Gurdon Buck, has attained to such universal acceptance that now it may be said to have

no competitor for professional favor

The abandonment of all complicated and mysterious machinery, and the substitution of the simplest forms of material, such as pasteboard, leather, and so forth, as coaptation splints, is another striking fact in the history of this department of surgery in our day My own favorite splint for these purposes consists of folded newspapers surrounded by one or more sheets of cotton wadding This constitutes a simple, cheap, light, safe, efficient and easily applied I use it not only in the treatment of apparatus fractures of the long bones, but in the treatment of feel entirely satisfied with it, and many of my former pupils have testified to its merits as a practical appliance

The use of plaster of Paris as a dressing in fractures, notwithstanding the eloquent claims made for it some years ago, in certain high quarters, has now, I think, reached its proper position in the estimation of the profession It is a suitable method of treatment for a few fractures, under certain exceptional circumstances, but its field of usefulness is, in my

opinion extremely limited

The treatment of Colles' fracture without any splints at all, and regarding the concomitant sprain of the wrist-joint, and the danger of adhesions and contraction of tendons as the chief indication after the fracture is once reduced, carefully eschewing immobilization (which is improper in sprains everywhere), according to the teachings of Bouchet, E M Moore, Le Comte, Gordon, Pilcher and others, I have had numerous opportunities of testing, and have had the pleasure of placing on record some of the results of my experience, which have been eminently satisfactory in every case in which I have Instead of regarding Colles' fracture with fear and trembling, as used to be the common feeling toward it on the part of surgeons, it may now, with our better understanding of its pathology and our improved methods of treatment be regarded as among the safest and most satisfactory of all frac And in this connection I may refer briefly to

practice as regards all fractures in the neighborhood of joints, namely, the cautious, efficient measures now adopted by the aid of an esthetics, when necessary, to prevent anchylosis, and contraction of fibrous structures by the use of passive movements, cautiously applied to the articulation during the course of treat ment of the fracture The treatment of fractures of the humerus, when non union seems to threaten, by placing the forearm in the straight instead of the rectangular position, on the principle laid down by the late Dr Frank Hamilton, I feel bound to approve after some very satisfactory experience therewith The main argument in favor of the rectangular position namely, the danger of anchylosis in the worst position, no longer holds good, since by the maintenance of judicious passive movements, this contingency is fully provided for

In regard to the treatment of non union of fractures, there are only three observations which it less formidable procedures seems necessary for me to mention here The first of these relates to the cause of non union, about which great uncertainty has always existed in the minds of the profession For some years past it has been my fortune to receive, at my public clinic in the University of Michigan, many cases of ununited tracture, mostly from the lumber camps and mining rendered possible by the aid of anæsthesia districts of the northern part of the State, and I have been struck with the fact that, in every instance, the fracture has been produced by direct and very great violence, so that it has seemed to me a reasonable explanation of this unfortunate accident that the violence of the injury, affecting injuriously the vital powers of the tissues involved, is responsible for the disastrous failure of the reparative efforts of nature

examination whether or not there is any reasonable tion chance for union to be induced in any given case of If, on examination, the medullary canal is found enlarged, the cortical substance proportion ately thin, the bone and neighboring tissues generally having undergone fatty degeneration, no operation and no method of treatment will, in my opinion, succeed in inducing union

In the third place, experience has led me to discard entirely the expedient of wiring the ends of bone after the operation of resection for non-union convinced that it does not improve the chances for union, and I have in cases of my own and of other surgeons frequently had occasion, months or years afterward, to operate for the removal of silver ligatures which had become a serious source of annoyance and danger to the patient Within a few months I have performed resection of the femur for non-union in two extremely bad cases, and in an equally bad case in the lower jaw where the fracture was compound and comminuted, and in all three the result was complete success although no silver ligatures nor appliances of newspaper coaptation splints, a modification of Lis- same proceeding

of these cases were any germicides or antiseptics used, although a strong effort in the direction of perfect surgical cleanliness was made, and in all the wounds healed rapidly and with very little irritation

STONE IN THE BLADDER

In regard to operations for the removal of unnary calculi great activity has prevailed and decided progress has been made in very recent times generations were moved with admiration by the brilliant operations performed and the large ratio of successful results obtained by Cheselden, Liston, Dudley and others, our own generation has noted with at least equal gratification the practical results which have flowed from the persistent efforts and the wonderful scientific ingenuity of men like Thompson, Bigelow, Otis, Gouley and others, whereby it has been attempted to substitute for lithotomy safer and

The operation of lithotrity and the instruments by which it is effected, have been most completely revolutionized, and I think we may almost say perfected, under our own eyes, while litholopaxy, or the operation of Bigelow, constitutes one of the many valuable additions to the long catalogue of surgical procedures So successful have these methods been in the hands of their inventors and others, and so ingenious and plausible the arguments urged in their favor, that there has seemed to me to be some danger of their being too universally resorted to, to the exclusion of the timehonored operation of lithotomy Recent utterances, however, such as those of Mr Reginald Harrison, of England, encourage the hope that moderate and In the second place, I have come to believe that it reasonable views will ultimately prevail, and that full is possible for the surgeon to determine by actual justice will be done to all of the procedures in ques-For my own part I have always believed and taught that, while lithotrity and litholopaxy are valuable methods of getting rid of stone in the bladder, still there are substantial advantages in lithotomy which will always make it the best operation in a large and important class of cases Mr Harrison, in the article referred to (The London Lancet, February 4, 1888) says

"Mr Cadge, in his recent Hunterian lectures, pointed out that the recurrences of stone after lithotrity are lamentably frequent, and if there were added to the list those numerous cases of phosphatic deposit or concretions so often noticed after this operation, the relapses, he believed, would reach nearly 20 per cent The state of the interior of the bladder, relative to its shape, its power of contraction and the presence or absence of inflammation, has a determining influence in the reproduction of stone, and we have, I think, been rather too much disposed to allow the physical properties of the stone to determine for us, as it were, the selection of the operation, irrespective of these relative conditions Though a that kind were used The fractures of the femur were hard stone is, as a rule, best treated by lithotomy, treated simply as any ordinary case of compound this by no means implies that some small and soft fracture of that bone would be treated, namely by ones are the less advantageously removed by the Let me take, for instance, the ton's long splint, and Buck's extension and counter- case of a stone in the bladder occurring in an adult, extension apparatus by weight and pulley In none with some chronic cystitis and enlargement of the

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obtained, and in which there is strong promise of before the inflation still greater progress in the near future

Nor are these by any means the only subjects which the rapid flight of time warns me to omit the consideration of here, notwithstanding their great practical importance and their tendency to show forth the progressive nature of the surgery of our day But here my discourse, fragmentary and incomplete as it unquestionably is, must stop. If the effect of anything that I have said should be to convey a favorable impression of the present condition and pros pects of our beloved art, and to inspire even in the slightest degree hope and courage in the minds of those who, like myself, are struggling to promote and elevate its beneficent powers, I will be more than sat In any event, I must always feel deeply sensible of the honorable trust reposed in me by my brethren of this section, and my highest ambition will ever be to prove myself in some degree at least worthy of the great honor conferred upon me Certainly I know not any higher privilege or purer pleasure than that of contributing even in the least degree to the assistance, the gratification or the encouragement of the noble army of those who have enlisted for life in the arduous and beneficent service of surgery

"Men my brothers, men the workers, ever reaping something That which they have done, but earnest of the things that they shall do "

RECTAL INSUFFLATION OF HYDROGEN GAS AN IN-FALLIBLE TEST IN THE DIAGNOSIS OF VISCERAL INJURY OF THE GASTRO-INTESTINAL CANAL IN PENETRATING WOUNDS OF THE ABDOMEN

Read in the Section on Surgery, at the Thirty minth Annual Meeting of the An erican Medical Association, May, 9, 1888, and illustrated by three experiments on dogs

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(Concluded from page 777)

IV—HYDROGEN GAS IS INNOCUOUS AND NON IRRI TATING WHEN BROUGHT IN CONTACT WITH LIV-ING TISSUES AND IS PROMPTLY REMOVED

B1 ABSORPTION

a -Peritoneal Cavity

Experiment 53 - Dog, weight 45 lbs A circumscribed spot to the right of the linea alba was shaved and thoroughly disinfected and through this space a well disinfected medium sized trocar was plunged into the pentoneal cavity To the cannula of the trocar the rubber tube of the inflation balloon charged with hydrogen gas was attached and the whole peritoneal cavity filled with gas by compressing the balloon About four litres of gas were injected No gas escaped upon the withdrawal of the cannula and the puncture was sealed with cotton and

important fields of brain and thoracic surgery, in but little pain, and the next day the tympanitis had which, of late years, such brilliant results have been disappeared and the dog was as frisky and lively as Two days after the experiment was made the dog was killed and the peritoneal cavity carefully examined Not a trace of the gas remained and the peritoneum throughout presented a normal appearance

b - Pleural Cavity

Experiment 54—Dog, weight 25 lbs thorough disinfection an aseptic hollow needle was inserted between the seventh and eighth ribs in the axillary line into the left pleural cavity and hydrogen gas from rubber balloon forced through it until the pleural cavity was thoroughly distended On making a physical examination of the chest at this time the apex of the heart was found to the right of the sternum, vesicular breathing on left side absent, and on percussion of this side abnormal resonance The respirations became superficial and greatly increased in frequency On withdrawing the needle no gas escaped externally, but a circumscribed subcutaneous emphysema which appeared showed that some of the gas escaped through the puncture in the pleura into the subcutaneous connective tissue Twenty-four hours after the inflation the dog appeared to be in perfect health. The normal relations in the chest had become restored and the subcutaneous emphysema was less extensive animal was kept under observation for a considerable length of time, but at no time could symptoms of pleuritis be detected

c — Subcutaneous Cellular Tissue

Experiment 55—Old dog, weight 43 lbs small perfectly aseptic trocar was inserted through the skin into the loose cellular tissue in the right inguinal region and through the cannula two litres of gas were injected, the gas distributing itself through the loose connective tissue over a large surface of Upon the withdrawal of the cannula the the body puncture was hermetically sealed with iodoform The subcutaneous emphycollodium and cotton sema disappeared completely in forty eight hours, and no traces of inflammation could be found at the point of punture, or at any place where the gas had come in contact with the tissues

Experiment 56 - Dog, weight 25 lbs Subcutaneous inflation of two litres of hydrogen gas through the cannula of a small trocar into the left side of the The subcutaneous emphysema reached from the clavicle and axilla on that side to the crest of the ilium, the gas at some points elevating the skin at least four inches from the subjacent tissues gas was absorbed somewhat more slowly than in the preceding experiment, but three days after the inflation no trace of emphysema could be detected and the subcutaneous connective tissue was as pliable and movable as before the inflation

-RECTAL INSUFFLATION OF HYDROGEN GAS IN THE DIAGNOSIS OF PENETRATING GUNSHOT WOUNDS OF THE ABDOMEN

In these experiments the animals were strapped on one of Pasteur's operating tables Abdomen 10doform collodium The animal appeared to suffer shaved, and after complete etherization the shooting

prostate The probabilities are that for many months, if we look at a section of such a stone after its removal, the bladder has been engaged in encasing it in a mould of phosphates just as completely as if it were done by plaster of Paris I have examined a very large number of bladders with prostatic hypertrophy and, having regard to the pouched condition of the viscus as well as the condition of the mucous membrane, relative to the presence or absence of phosphatic deposit upon it, it has often struck me not that lithotrity has its failures, but that, under these circumstances, its successes are so numerous

"Reflections such as these induced me, some years ago, to greatly alter my mode of procedure in cases of this kind, where either it was clear that the stone was the effect rather than the cause of disease, or where this fact was demonstrated by the failure of The bladder, under these circumstances, lithotrity resembles a chronic abscess with a stone in it, and it is just as necessary to open and drain the one as the have accomplished so great and beneficent a result phosphatic stone had been removed by three lithotrities, and who was never free from vesical irritation, I performed, two years after the first crushing, lateral lithotomy, and removed more phosphatic calculus of recent formation His bladder was then drained and washed for eight weeks, until he voided normal acid urine, when the tube was removed and the wound This and similar instances are healed in a month examples not merely of successful lithotomy, but of successful drainage In the performance of lithotomy in cases of this description my aim is to make a wound into the bladder which will permit of very ready and efficient drainage, and which is not likely to close up before the interior of the viscus is ready for the reception and continence of the urine Hence I am an advocate for lateral lithotomy, which best fulfils the conditions that are required As a rule, cases of this kind require drainage to be continued from four to eight weeks, and I have drained them as long as ten weeks before the state of the bladder, as evidenced by the urine, was such as to allow the wound From a gentleman of 70, who to heal up for four years had passed his urine by catheter, I removed by lateral lithotomy three uric acid calculi of moderate size, coated with phosphates I made a very free opening into the neck of the bladder, put in one of my largest-sized tubes and drained continuously for eight weeks, when the wound was allowed He can now expel his urine without assistance and has entirely discarded the catheter remarkable that the bladder should have entirely recovered its power after so long a period of inaction

as four years " I have made this lengthy quotation from Mr Harrison's lectures because it expresses very distinctly the views that have guided my own practice, and which I have been accustomed to teach for many years, and the following remarkable case from my own experience seems to me to furnish a strong argument in their support In November, 1883, I was asked by Dr Bennett to see a patient in the Wayne bladder among other things The history of the case extended compels me to omit all consideration of the

was briefly as follows Five years previously, the patient had fallen from a building and injured his spine, causing complete paraplegia, with incontinence of urine I found him confined to bed, suffering great pain from the presence of two very large stones in his bladder, and from all the disagreeable effects of complete incontinence of urine in a paral yzed man, including bedsores I administered chloroform, removed the stones from his bladder by the left lateral operation, made provisions for thorough drainage and washing out of the bladder, and not only did the wound heal when permitted to do so but, when this took place, it was found, to the surprise of all, that the patient had recovered complete control over his urine, which he retains to the present time The calculi were phosphatic and comparatively soft, so that they might easily enough have been removed by lithotrity or litholopaxy But will anyone say that either of these procedures could possibly In a man of 60, from whom large masses of for him as the operation which I performed did?

A good deal has been said in recent times in favor of the supra pubic or high operation of lithotomy, and no doubt there is an important field of usefulness for this method of opening the bladder Still, I can not believe that the advantages are sufficiently great to justify us in preferring it to the old operation of lateral lithotomy On this subject also I think Mr Harrison, in the lecture from which I have already quoted, has expressed himself in wise and conservative terms Among other things he says

"We must not be unmindful that experience has already shown us that supra-pubic cystotomy, like other procedures having the same object, has its own difficulties and dangers Instances have been recorded where a weakened bladder under the press ure of distension has given way and death has then followed, and similarly the rectum has suffered in a corresponding manner, but without producing any To most of us the simplicity serious consequences and ease with which lateral lithotomy can usually be performed is such as to strongly prejudice us in its favor in its absence of any special reason to the contrary such as I have indicated Still, on the other hand, there are places for both the high and low operations in the practice of surgery which they can fill with relative advantage, and without fear of clash-

The operation of cystotomy by the left lateral method, for chronic cystitis and chronic irritable bladder is one which I have practiced with most grat ifying results in numerous cases, some of which are so striking in character that I would like to detail them here, but time does not permit

One point of great practical importance in this connection must, however, be noted, namely the fact, long since pointed out by Sir Benjamin Brodie, that certain cases of chronic cystitis and chronic irri table bladder are associated with and dependent upon suppurating kidneys, and of course these cases should be carefully diagonized and excluded from the class amenable to operation

The undue length to which this paper has already

the right kidney which showed a perforation through the centre An examination of the gastro intestinal canal revealed two perforations of the crecum, and five of the small intestines After passing through the kidney the bullet perforated the diaphragm, traversed the pleural cavity and escaped through the chest wall two inches (5 cm) to the right of the

Experiment 63—Old dog, weight 35 pounds Thoroughly etherized and shot in the abdomen, the bullet entering three inches (7 4 cm) to the right of, and an inch and a half (3 cm) below, the umbilicus passing almost transversely through the abdominal cavity it escaped at a corresponding point on left side Inflation of hydrogen gas was attempted, but failed on account of the apparatus being out of order The abdomen was opened and no gas was found even in the colon Twelve perforations of the small intestines were found, and a number of perforations of the mesentery which had caused profuse hæmor-

Experiment 64-Large, black dog Etherized and shot in the abdomen, wound of entrance three inches (7 4 cm) to the right of, and an inch and a half below, the umbilious, wound of exit near a corresponding point on opposite side, the bullet taking nearly a transverse course Rectal inflation of hydrogen gas gave a prompt positive result abdomen was opened and five perforations of small intestine were found, besides laceration of thoracic duct, and a number of perforations in mesentery perforation contained gas, while above the lowest

perforation the bowel contained no gas

Experiment 65 - Dog, weight 25 pounds Under full anæsthesia the animal was shot in the abdomen, the bullet passing nearly in a transverse direction through the abdominal cavity an inch and a half below the umbilicus from points of entrance and exit midway between linea alba and spine Rectal insufflation of hydrogen gas made under very low pressure led to rapid distension of the abdomen, an occurrence which furnished strong evidence that the gas had escaped through a perforation in the colon into the peritoneal cavity. The gas escaped in bubbles through the wound of entrance, and when a lighted taper was held near the wound it burned with a jet varying in size On opening the abdomen gas escaped from the peritoneal cavity, small intestines empty, and only a small amount of gas in the colon The following intra peritoneal injuries were found Four perforations of the duodenum, two of the jejunum, and one of the cecum also a perforation nearly through the centre of the left kidney, laceration of the receptaculum chyli, and a number of per-forations in the mesentery The bullet was found between the left kidney and the abdominal wall

In all of these experiments the bullet was fired through the abdomen from side to side transversely, or somewhat obliquely, directions which invariably brought into the track of the bullet a number of in- geon to the wound testinal coils, and often the colon likewise. In the

blood The source of this profuse hemorrhage was little higher up the intestines escaped, but the stomach showed two perforations, one near the pylone, and the other near the cardiac extremity Rectal insufflation of hydrogen gas proved an infallible test in every instance, except in the case where it failed on account of the inflation apparatus being out of order Contrary to the experience of other experimenters, I found that fæcal extravasation does not uniformly take place soon after gunshot wounds of the intestines, and in the cases where I observed it some part of the colon nad been wounded testinal inflation does, therefore, not tend to increase the frequency of this occurrence, and must therefore be looked upon as a harmless measure in this

Inflation, as a preliminary measure, greatly expediates the first step in the operation of abdominal section in cases where the intestine has been perforated or injured, as the gas which escapes into the peritoneal cavity separates the intestines from the anterior abdominal wall, and the incision can be made safely and rapidly without fear of wounding the intestines Penetrating wounds of the abdomen, where the course of the bullet is in an opposite direction to that which has been described in the preceding experiments, that is in an antero-posterior direction, may not implicate the intestines at all, or if visceral injury is inflicted, it is more likely that only a single perforation exists, and never does the surgeon meet with such a multiplicity of lesions as have been cited above Unless the surgeon can ascertain before hand that in a case of penetrating wound of Colon and small intestine below the lowest point of the abdomen an injury to some portion of the gastrointestinal canal exists, the very means which he resorts to in making an anatomical diagnosis is often an imminent source of danger, as only too often he may have to examine every inch of the gastrointestinal canal for this purpose, a procedure which is always attended by great risk to life If by such a simple and harmless procedure as insufflation of hydrogen gas he can satisfy himself that the gastro-intestinal canal is perforated, the course to pursue becomes clear-to open the abdomen, seek for the perforation until he finds it, and to adopt proper treatment for the visceral injury

Cases have also happened in which the operator opened the abdomen, sought for, found and treated one or more perforations, and on making the autopsy a day or two later found, to his great chagrin and sorrow, a perforation which he had overlooked at the time of operation It seems to me that in cases in which any doubt exists as to the integrity of the remaining portion of the intestinal canal, after closing one or more perforations, it would be advisable to search for additional perforations by resorting again to slow and careful inflation before the abdominal wound is closed If no other perforations exist the gas will be confined to the interior of the gastrointestinal canal, and if the stomach or intestines at some point difficult of access are injured, the leakage of gas through the perforations will lead the sur-

In the practical application of rectal insufflation two experiments where the track of the bullet was a of hydrogen gas, as a means of diagnosis in pene-

was done at short range with a thirty-two calibre re-Inflation of hydrogen gas was practiced im mediately after the shot was fired, and after its diagnostic value was carefully studied the abdomen was opened and its contents examined for visceral injur-In all cases where the colon was perforated in flation could be done under very slight pressure, as the gas readily escaped into the peritoneal cavity, and from there through the bullet wound in the abdominal wall, where it was ignited as it escaped As it is not the object of this paper to give the result of the operative treatment, the experiments will only be described in reference to diagnosis as verified by abdominal section, but in every case an attempt was made to save the life of the animal by operative treatment, and in a few instances the efforts were rewarded by success

Experiment 57—Dog, weight 30 lbs The abdomen was opened by an incision through the linea alba and a coil of the small intestine was drawn forward into the wound, and an incision one half an domen examination revealed the following visceral inch (12 mm) in length was made on the convex injuries side and the intestine returned was inserted into lower angle of wound, and the rest | the ileo-cæcal valve, eight in the upper part of the of the wound closed by sutures About two litres leum within the space of one foot (30 cm) of the of hydrogen gas were inflated per rectum when the intestine The mesentery was perforated at three gas escaped through the glass-tube, and when ignited burned with a continuous steady blue flame as long siderable size were severed, which gave rise to proas the inflation was continued The wound was opened and a small quantity of gas was found in the peritoneal cavity The whole intestinal tract below the visceral wound was found moderately distended by gas, while above the wound the intestine was normal in size

Experiment 58 —Dog, weight 15 lbs When the dog was completely under the influence of ether hydrogen gas was forced from anus to mouth, and while the abdomen was still moderately distended the animal was shot in the abdomen, the bullet being directed transversely from the point of entrance on the side of the abdomen two inches (5 cm) to the right of the median line and on a level with the um-On applying a lighted taper to wound of entrance, and compressing the abdomen, hydrogen gas escaped and was ignited When the inflation was resumed the gas burned with a continuous flame at the wound of entrance The abdomen was then opened and two perforations in the stomach were found, one on the anterior surface near the pylorus, and the other on posterior surface at the cardiac extremity, about an inch above the omental The distension of the stomach by hyattachment drogen gas had brought this organ within range of the track of the bullet

Experiment 59 - Dog, weight 20 pounds Under complete anæsthesia the animal was shot in the abdomen, the bullet taking the same direction as in the previous experiment, only that the track was about an inch (26 cm) above the umbilicus ately after the shooting hydrogen gas was inflated that the colon in some part of its course had been per rectum, and its presence in the abdominal cavity injured became evident by a marked tympanitis, absence of entrance where it was lighted and burned with the liver dulness, and later by a localized emphysema characteristic blue flame around the wound of entrance As the pressure was opened was found almost completely filled with

continued bubbles of gas escaped, and on applying a lighted taper, ignited with a feeble explosive re The abdomen was opened, and the stomach showed two perforations, one just above the omental attachment near the pylorus, and the other on the same level at the cardiac extremity Little hæmorrhage, and no extravasation of contents of stomach

Experiment 60 - - Dog , weight 30 pounds Animal anæsthetized and shot in abdomen at a range of two feet, wound of entrance two inches to the right of, and on a level with, the umbilious Wound of exit one inch above the middle of left crest of ilium Inflation of hydrogen gas per rectum soon caused extensive tympanitis, and as but little force had been used the conclusion was drawn that some part of the descending colon had been injured As the gas did not readily escape through the bullet wounds a small cannula was inserted into the abdominal cavity through the wound of entrance, when the gas escaped freely and was ignited On opening the ab-Two perforations in the descending colon, A small glass tube four in the ileum, within a distance of ten inches of points, and a number of mesentenc vessels of confuse hæmorrhage

Experiment 61—Large coach dog The animal was completely etherized and shot in the abdomen Wound of entrance midway beat close range tween linea alba and vertebral column on left side, a little below the level of the umbilicus, wound of exit close to last lumbar vertebra over crest of ilium on opposite side Rectal inflation of hydrogen gas under slight pressure at once produced diffuse tympanitis, and the gas escaped freely through wound of entrance where it was ignited and burned with a large steady blue flame as long as the inflation was continued On opening the abdomen gas escaped, but inspection showed that the small intestines contained no gas, a condition which pointed to the colon as the seat of perforation One per foration was found in the anterior wall of the sigmoid flexure and two perforations in the cæcum the small intestines two perforations were found in the ileum near the cæcum, and three in the upper portion of the jejunum Among the other organs injured were the spleen, the receptaculum chyli, and a number of perforations in the mesentery

Experiment 62 - Large dog, profound ether Shot in the abdomen, the bullet entering narcosis on a level with the umbilious and about one inch to the left of the median line Point of exit two inches from spinal column, and a little above the lower border of the chest On inflating the rectum with hydrogen gas hardly any force was required to dis tend the abdomen, and for this reason it was believed

out resorting to an exploratory laparotomy In conclusion I beg leave to submit for your discussion the following propositions

r The entire alimentary canal is permeable to rectal insufflation of air or gas

2 Inflation of the entire alimentary canal from above downwards through a stomach tube seldom succeeds, and should therefore only be resorted to in demonstrating the presence of a perforation or wound of the stomach, and for locating other lesions in the organ or its immediate vicinity

3 The ileo cæcal valve is rendered incompetent, and permeable by rectal insufflation of air or gas under a pressure varying from one fourth of a pound

to two pounds

- 4 Air or gas can be forced through the whole alimentary canal from anus to mouth under a pressure varying from one third of a pound to two pounds and a half
- 5 Rectal insufflation of air or gas to be both safe and effective must be done very slowly and without interruptions
- 6 The safest and most effective rectal insufflator is a rubber balloon large enough to hold 16 litres of air or gas

7 Hydrogen gas should be preferred to atmos pheric air or other gases for purposes of inflation in all cases where this procedure is indicated

- 8 The resisting power of the intestinal wall is nearly the same throughout the entire length of the canal, and in a normal condition yields to diastaltic force of from eight to twelve pounds of pressure When rupture takes place it either occurs as a longitudinal laceration of the peritoneum on the convex surface of the bowel, or as multiple ruptures from within outwards at the mesenteric attachment. The former result follows rapid, and the latter slow, inflation
- 9 Hydrogen gas is devoid of toxic properties, non-irritating when brought in contact with living tissues, and is rapidly absorbed from the connective tissue spaces and all of the large serous cavities
- To The escape of air or gas through the ileo cæcal valve from below upwards is always attended by a blowing or gurgling sound, heard most distinctly over the ileo cæcal region and by a sudden diminution of pressure
- II The incompetency of the ileo cæcal valve is caused by a lateral and longitudinal distension of the cæcum which mechanically separates the margins of the valve
- 12 In gunshot or punctured wounds of the gastrointestinal canal insuffiation of hydrogen gas enables the surgeon to demonstrate positively the existence of the visceral injury without incurring the risks and medico-legal responsibilities incident to an exploratory laparotomy

THE CONSUL GENERAL at Honolulu reports that many lepers leave the Sandwich Islands as soon as the disease appears, the greater number coming to the United States, in order to prevent being banished to the Island of Molokai

THE

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THE EDITOR OF THIS JOURNAL would be glad to receive any items of general interest in regard to local events, or matters that it is desirable to all to the attention of the profession. Letters written for publication or matalning items of information should be accompanied by the writer's full tame and address although not necessarily to be published. All communications in regard to editorial work should be addressed to the Editor.

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COMPLETION OF VOLUME X

The present number completes the tenth volume of The Journal of the American Medical Association and the fifth year of its publication. As usual, it is accompanied by a full index and title-page, convenient for binding and future reference

At the beginning of the fourth year, volume ix, it was found necessary and convenient to enlarge THE JOURNAL by the addition of four pages to the department for papers and original contributions, by which volumes in and a were made to contain 832 doublecolumn pages each, or a total of 1,664 pages for the Such has been the progress and material development of interest in The Journal that we shall commence the sixth year, volume xi, July 7, with the further addition of four more pages to the readingmatter, and present the whole in a new typographical dress-improvements that, we trust, will be gratifying to all its readers This will make each of the future volumes contain 936 pages, or a total of 1,872 for the year, which is more than four times as much important reading matter as members of the Association received in the single annual volume of Transactions before THE JOURNAL was established and yet without any increase in the amount of the annual membership dues from each member Under the former arrangement all the papers and proceedings were distributed in one volume not until from six to nine months after each annual meeting, while in THE JOURNAL at present every member gets, each week, as large an installment of papers and reports as he can find time to read, and before the time he formerly received his single volume he has already had not only all the papers

trating wounds of the abdomen, the field of possible operation should be carefully prepared by shaving and disinfection before inflation After thorough disinfection of the external wound or wounds, and the field of operation, the patient should be placed thoroughly under the influence of an anæsthetic for the purpose of relaxing the abdominal muscles, which greatly facilitates the inflation. In the absence of a Wolf's bottle hydrogen gas can be readily generated in a large wide-mouthed bottle into which a small handful of chips of pure zinc is placed The mouth of the bottle is closed with a cork with two perforations, through which two glass tubes are inserted, one for the purpose of pouring in water and sulphuric acid, and the other, which should be bent nearly at right angles, for leading away the gas tube and the rubber balloon with a capacity of 16 htres of gas are connected by means of a rubber In from five to ten minutes the requisite amount of gas can be generated and everything is The rubber tube connecting ready for the inflation the balloon with the rectal tip of an ordinary syringe should be interrupted by a stop-cock, so that the escape of gas can be prevented whenever inflation is The return of gas along the temporarily suspended sides of the rectal tip can be readily prevented by an assistant pressing the anal margins firmly against it The inflation must always be made slowly, as long continued, uninterrupted pressure accomplishes most effectually lateral and longitudinal dilatation of the cæcum, conditions which render the ileo-cæcal valve incompetent, and which must be secured before inflation of the small intestines is possible entrance of gas from colon into the ileum is always least slightly dilated by gas If this perforation is attended by a diminution of pressure, and its occurrence can invariably be recognized by a gurgling or blowing sound over the ileo cæcal valve, and sometimes the sounds are sufficiently loud to be heard at some distance

If, after inflation, abdominal distension and tympanitis be from the very first diffuse, and liver dulness has disappeared, it is a certain indication that it is due to the presence of gas in the peritoneal cavity, and not to distension of the gastro intestinal canal If, on the other hand, the distension and tympanitis follow the course of the colon, and after the entrance of the gas through the ileo cæcal valve is circumscribed and limited to the umbilical and hypogastro regions, and gradually extends to the upper portion of the abdomen, and the liver dulness is displaced up wards, it is in all probability caused by a gradual and successive inflation of the intact bowel in an upward In some penetrating wounds of the abdirection domen it is difficult, if not impossible, to follow the course of the bullet through the abdominal wall with a probe or finger on account of a relative change of position of the different layers of tissues in the track of the bullet obliterating the canal, but even in these cases a moderate distension of the peritoneal cavity by an accumulation of gas outside of the intestines will force bubbles of gas through the tortuous canal, that some portion of the gastro intestinal canal has gastro-intestinal canal in penetrating wounds of the and by this sign the surgeon may know positively been perforated, and in order to prove that the bub- abdomen or perforations from any other cause, with-

bles which escape are part of the hydrogen gas which has been inflated he applies a lighted match or taper, and if it is hydrogen gas it will ignite with a slight explosive report, and burn with a characteris tic blue flame The burning of the escaping hydrogen gas on the surface of the external wound is a most effective means in securing for the wound an aseptic condition, and on that account the escaping gas should be lighted both for diagnostic and therapeutic purposes in all cases in which rectal insufflation of hydrogen gas reveals the presence of visceral injuries of the gastro-intestinal canal

As the hydrogen gas from its low specific gravity will always occupy the highest space in a cavity partially filled with fluids, it is necessary to place the This glass external abdominal wound in such a position that blood or any other fluid that may be present in the abdominal cavity will not interfere with its ready es-If the wound is anterior the patient must be placed in dorsal position, if lateral, on the opposite side during the inflation If during inflation early and diffuse tympanitis takes place, it speaks in favor

of perforation of the colon

Should the external wound prevent the escape of gas from the peritoneal cavity by sliding of the different layers of tissue of the wound in the abdominal wall, or by the presence of a coagulum in the track made by the bullet, it becomes necessary to secure a sufficient degree of patency of the wound for the escape of gas by careful probing or the removal of The finding of perforations is coagulated blood also greatly facilitated by inflation, as the bowel be-The low the lowest perforation will always be found at now closed and additional perforations are suspected to exist the inflation can be repeated, and the bowel will again become distended as far as the next perforation, and this process can be repeated until the entire intestinal canal has been examined by this By searching for leaking points in this method manner but little manipulation of the intestines be comes necessary, and thus one of the great sources of danger in the operative treatment of wounds or perforations of the gastro-intestinal canal is avoided The moderate distension of the intestines lest after treating the visceral wounds never interfered with the return of the intestines into the abdominal cavity or the closure of the external wound in any of the experiments, and the numerous observations made in reference to the disappearance of the gas by absorption, or escape through the natural outlets, are conclusive in showing that the distension due to the presence of the gas disappears in a remarkably short time, and it can therefore be safely stated that rectal insufflation of hydrogen gas in the diagnosis and treatment of penetrating wounds of the abdomen does not interfere with an ideal healing of the visceral After a careful study of and laparotomy wounds the subject of rectal insufflation of hydrogen gas in its various aspects, I do not hesitate to recommend its adoption in practice as an infallible diagnostic test in demonstrating the existence of a wound of the

AFTERNOON SESSION

DR B ALEX RANDALL, of Philadelphia, delivered the

ADDRESS IN OTOLOGY

Attention was mainly directed to the treatment of ear disease by the general practitioner

read a paper on

PREVENTION OF EAR DISEASE

The paper referred to the prevention of ear affections by proper care in childhood

DR HARRISON ALLEN, of Philadelphia, read a paper on

GOUTY SORE THROAT,

giving the diagnostic points, and the methods of treatment which he had found of service

Dr. J William White exhibited two patients on whom the

RADICAL OPERATION FOR THE CURE OF HERNIA

had been performed Case one, was one of com plete oblique inguinal hernia. The bowels became strangulated in the sack by bands of lymph The upper portion of the constriction was divided sack was drawn downward and tred It was then re-The stump was then next secured in the The tissues on either side were brought to gether, the skin being not included The upper twothirds of the wound were closed in this way lower third was packed with iodoform gauze tient recovered without a bad symptom, and at present, ten weeks after operation, there is no signs of return of the hernia In a second case, a similar operation was performed with the exception that an undeveloped testicle lying in the inguinal canal, and giving rise to pain, was removed

DR H F HANSELL, of Philadelphia, read a paper on

INSUFFICIENCY OF THE INTERNAL RECTI MUSCLES

The following conclusions were presented

I In all cases of continual functional headache the extrinsic muscles of the eye should be examined

2 Insufficiency is found in cases of emmetropia,

hypermetropia, myopia and astigmatism

3 The condition can be relieved by prisms and by tenotomy, when less than 10° by prisms, when greater, by the latter method

both eyes had not been necessary

DR HEYL, of Philadelphia, read a paper on

CERTAIN EYE SIMPTOMS IN BRAIN DISEASE

The object was to describe two abnormalities which he had met with. The first abnormality is the injection of a fine series of vessels coming off at had followed an attack of scarlet fever and diphtheria right angles from the main retinal trunks This he had found in cases of melancholia and also in meningeal congestion

The second observation inal artery divides is equal to that of the central ar- Tuesday of May, 1889

The abnormality consists in a diminished calibre of these two branches This had been found in cases in which there was reason to suspect disturbance of the intra-ventricular fluid

DR CHAS W DULLES, of Philadelphia, made a

REPORT ON HYDROPHOBIA.

DR L J LANTENBACH, of Philadelphia, then in which he maintained that in the human being socalled hydrophobia was not a true infectious disease

DR E O SHAKSPEARE thought that experimental research showed that hydrophobia was an infectious disease The crucial test is the inoculation of rabbits with the medulla of individuals dying with hydrophobia and the transmission of the disease to the animal This test had been satisfactorily applied in this way in many cases

On motion Dr Dulles was requested to continue his studies and report at the next meeting of the Society

The President announced the following appoint-

ments for next year

Address in Medicine, Dr J C Wilson, Philadel-

Address in Surgery, Dr J B Roberts, Philadelphia Address in Obstetrics, Dr F N Baker, Delaware

Address in Hygiene, Dr Thos J Mays, Philadel-

Address in Mental Disorders, Dr Alice Bennett. Montgomery Co

Address in Laryngology, Dr W H Daly, Alle-

Committee to consider the Medical Examiners Bill, Drs L F Flick, Edward Jackson, E A Wood. L H Taylor and Wm F Waugh

Dr Goodwillie, of New York, then read a paper describing New Methods of Treatment of Hare-Lib and Cleft Palate in Infants

Dr E A Wood offered a resolution as follows

WHEREAS, The four Hospitals for the Insane under the care of the State of Pennsylvania are at present organized on either of two radically different plans, each claiming better results,

Resolved, That the President of this Society acpoint a committee of thirteen, which shall include the superintendents and chief physicians of such State hospitals, to investigate into the relative merits of the two systems and report at the meeting of this

Adopted Society in 1889

The afternoon session closed with a paper by Dr In the experience of the speaker operation on Laurence Turnbull, Philadelphia, describing a case of ear disease in which a portion of the mastoid cells on one side were discharged, and on the other the semicircular canals and cochlea There was facial paralysis, the portion of the bone through which the facial nerve passes also coming away There was still a certain amount of hearing The ear trouble

FRIDAY, JUNE 8-FOURTH DAY

After the transaction of some routine business and Normally the combined the presentation of the newly elected officers, the calibre of the two vessels into which the central ret- Society adjourned to meet in Pittsburgh, the third

of the Association, but along with them a great variety of additional matter of equal value with that derived directly from the Association Our chief embarrassment now is that so large a proportion of writers desire to have their papers published at once, apparently forgetting that they cannot have a journal regularly each week and at the same time have all the contents designed for six months put into the first six weekly However, during the brief time we may continue to edit The Journal we shall continue, as heretofore, to give in each number of The Journal the greater part of the original department to such variety of the papers of the Association as will afford something of interest for the greatest number of readers, and a little space to voluntary contributions, remembering that a large proportion of these are also from members of the Association, and equally entitled to a hearing

EDITORIAL NOTES

Association —Dr John B Hamilton, who was Secretary of the Nominating Committee, writes that by an inadvertence he failed to put Dr W Thornton Parker, of Newport, R I, on the list of nominees as reported by the Committee, for Assistant Secretary of the Association

A Man Without a Larynx —The Paris correspondent of the Lancet writes that he has recently seen a man, aged 37 years, upon whom Dr Péan performed ablation of the larynx on February 27, 1886 He still wears the cannula introduced at that time, and when he speaks he closes the orifice of the cannula with his finger His voice is not very audible, but is distinct

Northwestern University—On Commencement Day, June 21, 1888, the corner-stone of the astronomical observatory building was laid with appropriate ceremonies, on the University grounds, at Evanston The \$25,000 required for the building was generously donated by Mr J B Hobbs, of Chicago

THE AMERICAN RHINOLOGICAL ASSOCIATION will hold its sixth annual meeting at Cincinnati, Ohio, September 12, 13 and 14, 1888 Secretary, Dr John North, Keokuk, Iowa

DR E MILLER REID, of Baltimore, has recently been elected Professor of Physiology, Hygiene and Clinical Medicine in the Baltimore University School of Medicine

SOCIETY PROCEEDINGS.

MEDICAL SOCIETY OF THE STATE OF PENNSYLVANIA

Held at Philadelphia, June 5, 6, 7 and 8, 1888 (Concluded from page 792) THURSDAY, JUNE 7—THIRD DAY

DR H C WOOD, of Philadelphia, delivered the ADDRESS IN MENTAL DISORDERS

The paper was devoted to considerations of the medico-legal relations of insanity Reference was made to certain defects in the Pennsylvania lunacy It was thought that trials in which this question arose might be rendered more just if an alienist should be on the bench as associate judge, or by reference to a commission whose finding might pos sibly be subject to review by the judges Another recommendation was that the jury of six provided for by the law should be substituted by a commission of three, one to be a member of the legal profession, one of the medical profession, and one a man of In conclusion, the following resolution business was offered

Resolved, That the President be directed to appoint a committee of — members, who shall confer with the State Committee of Lunacy, and if, in the concurrent opinion of these committees, any changes are advisable in our laws relating to lunacy, shall have the power to represent this body in obtaining such legislation

Action was deferred until later in the session

Dr J Chris Lange, of Pittsburgh, read a paper on Some Influences of Disease upon the Mind

The Address in Surgery was delivered by Dr Jas McCann, of Pittsburgh, the subject being Brain Surgery

The resolution presented by Dr Jackson, on Tues day, in regard to the

BOARD OF MEDICAL EXAMINERS

was taken up

DR J H PACKARD moved that the whole matter be referred to the Judicial Council for a decision whether or not the bill is in conformity with the Code of Ethics of American Medical Association

This was decided out of order, on the ground that the Society had already on two occasions approved of this bill, and that the American Medical Association had approved a similar bill

The resolutions were then adopted

DR JOHN V SHOEMAKER, of Philadelphia, read a paper on

THE CAUSE AND TREATMENT OF PSORIASIS

A patient was exhibited who had been the subject of repeated attacks of psoriasis for the past nine teen years. The interesting point was that each at tack was associated with an attack of rheumatism Various methods of treatment had been tried with out avail. The author intended to try the effect of suppositories of 1/4 to 1/2 grain of arsenious acid, the object being to make some impression upon the rheumatic state of the system.

cians who are now annually sent out, materially aids symptoms, and their treatment, locally or generally, a trade, and they merely exchange the carpenters correct, but there is a mean between them saw and the grocers scales for the scalpel and quitemperament, and prevention, hygiene, and medica tion, etc., are the methods. Some run after new certain nervous affections fashions, and thus we have experimental therapeutics, dence of what he may believe " However medication

was in vogue then It is not now so
In discussion Dr F H Williams, of Boston said that the term "experimental therapeutics" had had torn various interpretations, and the most modern of to the difficulties there has ansen a new way of studying the action of gree to have value, it is quite likely that it will be of some Recipes should become simpler A mixture with a dozen or so ingredients is a mistake, and better

there is a tendency among the junior practitioners to have almost unbounded faith in drugs, especially till they are taught by experience what is of the greatest advantage Meddlesome treatment is bad Much is to be expected from the germ theory

3 Dr Francis H Davenport, of Boston, then read an exhaustive paper on "Uterine Displacements and their influence on the General Nervous System" been recognized from the very earliest time They give rise to both local and general symptoms tactus eruditus is now seeking new worlds to con- repaired quer, and trained men can now find by palpation the Fallopian tubes and the ovaries, and even the round ligaments Next will follow the palpation of the ureters and some of the muscular tissues the treatment pessaries of all forms are recom | tion of operative measures which are now daily perbinding down a retroflexed uterus, and Byford's sician with the surgeon is impossible operation for shortening the round ligaments through the vagina

according to the conditions of distension of the blad- meningeal cavities

in this They look upon the practice of medicine as varies accordingly. Neither extreme is probably

The relationship between the genital organs and The treatment of the sick is a matter of the nervous system is so rigid that it was on this account the ancients applied the term hysteria to This is not absolutely correct, for hysteria may occur in men as well as in vicanous therapeutics, routine therapeutics, and women Hysteria in women and neurasthesia due rational therapeutics Dr Jacob Bigelow said fifty to the genitals generally occurs between the ages of years ago "The rational American requires evi-puberty and the menopause Ovarian disease is probably the most active in causing these nervous Also neglected lacerations of the disturbances cervix will do it, especially if the perineum is also Chronic metritis, etc., and displacements add Backward displacements are them deserves attention. Within the last few years more severe, occur oftener, and are of greater de-Hence from them the disturbance is greater drugs, chemically and physiologically, in large labor- Anteversion, pure and simple, occurs rarely, but atones erected for the purpose This is the case when complicated with descent it is not rare Reespecially in Germany When a drug is found here troversion is the most common form of displacement, and if the angle of displacement is not over 90° service to the practitioner. This study has just been there may be no symptoms. If greater than this, there occurs pressure on the rectum, etc, and the greater it is the more the weight of the intestines only one drug used for a definite purpose would be comes upon the uterus and we have prolapse also The minor grades are not detected in the ordinary Dr E P Hurd, of Newburyport, remarked that method of examination, for the uterus falls back To detect such minor degrees the standing position is the best Displacements are not always primary. When they are primary the treatment should be local, unless the general tone is too bad ito allow it until this is improved. If there are no adhesions the replacement, even in the unmarried patient, can be made at one sitting under ether If there are adhesions the slow method of packing the vagina will be The reader said these uterine displacements have necessary If there are tears of the perineum of and importance, which may occur even if they do The not appear so from the outside, these should be first

4 A paper on "The Modern Practice of Surgery" was next read by Dr Otis K Newell, of Boston, who said, that men live so much in their own day In that they are apt to think no further improvement possible In the old day the peritoneum was con-Progress, however, is now in the direc-sidered fatal even to the touch, now the danger of exploration of the peritoneum is chiefly nil formed, much bolder than was dreamed of twenty communication so aids in the dissemination of years ago eg, laparotomy and suturing of the knowledge that it is hard to keep properly informed uterus to the abdominal walls for the cure of retro- Particularly have the studies regarding antiseptic flexion, Alexander's operations on the round liga- treatment been so great that it is almost impossible ments, Sanger's method of tearing the adhesion to keep pace. A successful combination of the phy-The surgeon should have special training A man should not now be allowed to die of apendicitis since it has Curiously enough the normal position of the uterus been worked up by some Antisepsis and asepsis has been settled only very recently It is absurd to are now as important as anæsthesia, and the surapply the same rules to the uterus as to a fixed body geon should be held accountable for aseptic healing like the kidney It is now considered that the nor- We can now successfully operate, I Upon organs mal position of the uterus varies within certain limits in the cavities, as in the pleural, peritoneal and the 2 Resection of organs in conder and rectum The variations outside of these timuity 3 Resection of individual organs 4 Evnormal limits are considered by some to be the causes tirpation of organs 5 Replacement of defects by and by others the effects of the other troubles and transplantation in plastic operations from the same

DOMESTIC CORRESPONDENCE

LETTER FROM BOSTON

(FROM OUR OWN CORRESPONDENT)

The Massachusetts Medical Society One Hundred and Seventh Anniversary

Private Mental Sanitaria and Inebriates-Therapeutic Nihilism-Uterine Displacements and their Influence on the General Nervous System-The Modern Practice of Surgery-Statistics and Climatology of Phthisis and Pneumonia in Massachusetts-Officers

The one hundred and seventh anniversary of the Massachusetts Medical Society was held in Boston, June 12 and 13, and was attended by a number somewhat larger than usual of its members from various parts of the State

First day, June 12 - The forenoon was devoted to an acceptance of the invitation to visit the Massachusetts General Hospital, the Boston City Hospital. the Children's Hospital, and the Carney Hospital In the afternoon several interesting papers were read and discussed The President of the Society, meeting, and after a few words of welcome, called happier in a small "home," but this is no better upon (1) Dr A W Thompson, of Northampton, fitted to cure them, and only certain national and the patients can be kept happier in a small "home," but this is no better fitted to cure them, and only certain national and the patients can be kept happier in a small "home," but this is no better fitted to cure them, and only certain national and the patients can be kept happier in a small "home," but this is no better them. who read a paper on "Private Mental Sanitaria and the Inebriates" The reader referred to the late Dr S B Woodward, the first Superintendent of the State Asylum at Worcester, who, in 1835, held that inebriety is a disease, and that there should be a separate State hospital for its treatment Whatever poison has produced the inebriety, the disease has reached the mind, and is a psychosis, and like other psychoses it should be treated as such The inebriates should never be sent to an asylum, although many cases of inebriety have been cured in these They have an injurious effect on the other classes There should be one or two special places for inebriates, and these should be divided into wards and so forth, since these patients may be offensive to The cottage and private hospital system, each other some say, are not suited to any psychosis, but the reader thinks that the whole system lay in a public need, and it has done much good work, although it is hardly more than fifteen years since it began now has firm root in New England and has stood the test of experience In one particular, the large asylum has the advantage in the treatment of How often, after all details for the comfort and care pyschoses, viz, the fact that the public Superintendent is a salaried officer, and is in a judicial relation Secrecy as to his method is not posto his patients sible, his reputation is not local, and there has to be no consideration of a private account at the bank In many cases, discipline should be prescribed in doses, the same as we prescribe quinine or apply splints

The ideal hospital, however, is the private hospital over which presides an ideal Superintendent esty is the best policy in dealing with the insane is best he should be told that he is insane, and he should know the manner and the mode of restraint The discussion was opened by Dr Edward Cowler, concerning other drugs The vast number of physical concerning other drugs.

Superintendent of the McLean Asylum at Somerville, who said that this is a very important subject. The treatment of inebriety is a burning question of the It is a pyschosis There have been occasional cases at the McLean Asylum, which is private but of larger dimensions than is usual for a private institu tion, and some of them have been cured, but the rule is not to receive them Experience shows that patients partly well, are unable to accommodate themselves to their surroundings They make more demands, and they are of no assistance to the Superintendent in the care of others There are also difficulties in the treatment of these cases in sanıtarıa, especially since a very small proportion of the patients who go there will remain long enough for a complete cure Therefore there should be a special hospital for inebriates, when the inebriety has become a disease, and it should be under special law as to commitment, detention, etc

Dr Walter Channing, of Boston, endorsed Dr Cowler in his statement that the treatment of inebriety is a failure in large hospitals The compulsory law as to commitment now in force is a little aid to the friends, but it affords no relief to the mebriates satisfactorily treated in small places violent should go to the large institutions Dr Channing also advocated a special institution for ine briates, with a special law as to commitment and de tention for a definite period

Dr Charles P Bancroft, Superintendent of the N H State Insane Asylum at Concord, thought that the proper care of the mebriates is difficult in public institutions, and probably it is so, too, in the private Some special legislation is necessary, and in addition to the views of the other speakers, he advocated a certain amount of enforced labor, for the mebriate is generally lazy, and enforced idleness is de moralizing

2 A paper entitled "Therapeutic Nihilism" was read by Maurice D Clarke, M D, of Haverhill, who began with the remark, that it has been said that there is a tendency toward therapeutic nihilism in If by this, is meant that we sit at the bed Boston side with folded hands, and are waiters, and not The lasty, howworkers, it may be somewhat true ever, necessarily, expect that we shall "do something" of the patient have been carefully attended to, and accurate instructions for the continuation of the "But arn't you going to same, have we been asked do something, doctor?" And this feeling is some what shared by the doctors themselves said somewhere recently, that whereas rheumatic fever formerly meant Dover's powder and six weeks, it now means salicylic acid and six days lancet has now disappeared, and new drugs are coming on, which are advocated as specifics Note how It antipyrin and cocaine are said to be "good in" so many different diseases Note also the old editions of the dispensatories and their similar statements

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or other individuals or from animals 6 Restoration and retention of displaced organs Also Bigelow's lithoplaxy and endoscopic examination of the bladder. Orthopædic surgery is now taking the place of mechanical treatment. The surgeon should not be deterred from operation by a possibility of bad result Then the reader referred to the relation of legitimate medical practice to quackery, saying that "In medicine, unlike any other science, the quack is only readily detected by him who is well versed in the art itself, and it, therefore, devolves upon the physician more than any one else to aid in his exposure and If the united efforts of this Society extermination cannot soon succeed in establishing the most effective laws for the quick suppression of such vice, there is one way, I believe, in which it can be done I refer to the education of the public in general medi-In other commucal, hygienic and sanitary affairs nities this is already being done with great effect, and here in spite of the insulting lack of legal support, the medical profession is doing much in the same direction. The great value in educating the public in regard to the prevention and cure of disease is already recognized, and quite universally, to a greater or less degree, especially in hygienic and sanitary matters, being put into practice

5 The next paper, "A Study of Phthisis and Pneumonia in Massachusetts, Statistical and Chmatological," read by W Everett Smith, M D, of Boston, showed an exhaustive research into the statistics which were available to the writer, but no idea of the value of it nor the amount of labor involved in its preparation can be given without a reproduction of the admirable tables which so graphically stated the

facts obtained by the writer

The paper was inspired by a statement of Dr H I Bowditch, who said in 1862 that consumption was not equally distributed in accordance with the amount It is impossible, however, to estabof soil moisture lish this at present, since there are no data, and the Society passed a vote appointing Dr Smith a committee to confer with Prof Shaler and Gen Greely on this subject, who within the next three years will publish a series of fifty-two maps in relation to this subject, showing the soil structure and other geologi-

In connection with the meeting there is an exhibit of drugs and preparations, foods, surgical instruments aud apparatus, books, etc , by the leading manufacturers and dealers of Boston and New York are also some very interesting, curious old instru ments loaned by the Harvard Medical School, and some excellent models of very large size, of bones, muscles, etc, designed by Dr Thomas Dwight for purposes of instruction in anatomy

OFFICERS FOR ENSUING YEAR

The following officers were elected by the Coun-

cillors for the ensuing year

President, Dr David W Cheever, of Boston, Vice President, Dr George Jewett, of Fitchburg, Treasurer, Dr Frank W Draper, of Boston, Corresponding Secretary, Dr Chas W Swan, of Boston, Recording Secretary, Dr Francis W Goss, of Rox-

bury, Librarian, Dr Edwin H Brigham, of Boston, Orator, Dr Henry P Walcott, of Cambridge, Anniversary Chairman, Dr James R Chadwick, of Boston (To be concluded)

MISCELLANEOUS

DR S WEIR MITCHELL -The University of Bologna, on the occasion of the eight hundredth anniversary of its founda tion, conferred its honorary degree upon several representatives of literature, science and art, and included in the list was Dr S Weir Mitchell, of Philadelphia, who represented the National Academy of Science on the occasion

INPURE WATER -In Canton, Mass, the employes of the rolling department have been prostrated by drinking impure water to such an extent that it is feared it will be necessary to close the works of the Kinsley iron and machine company

A MONUMENT to COHNHEIM was unveiled at Leipzig, with appropriate ceremonies, on June 3

OFFICIAL LIST OF CHANGES IN THE STATIONS AND DUTIES OF OFFICERS SERVING IN THE MEDICAL DEPARTMENT U S ARMY, FROM JUNE 16, 1888, TO JUNE 22 1888

Major Wim E Waters, Surgeon, granted leve of absence for

twenty days, to take effect about June 15, 1888 S O 64,

Dept Columbia, June 8, 1888 Major Calvin DeWitt, Surgeon, granted leave of absence for

one month, with permission to apply for an extension of one month, with permission to apply for an extension of one month S O 52, Dept Dak, June 9, 1888

Major Robert H White, Surgeon, ordered from Angel Island, Cal, to Ft Myer, Va S O 142, A G O, June 20, 1888

Capt Curtis E Munn, Asst Surgeon, ordered from Ft Klamath, Ore, to Angel Island, Cal S O 142, A G O

June 20, 1888
Capt Geo H Torney, Asst Surgeon, relieved from duty at
Ft Monroe, Va, and ordered to Ft Randall, D T S O

Ft Monroe, Va, and ordered to Ft Randall, D T S U

142, A G O, June 20, 1888

Capt Geo McCreery, Asst Surgeon, relieved from duty at It
Meade, D T, and ordered to Ft Monroe, Va, for duty
S O 142, A G O, June 20, 1888

Capt Wm C Gorgas, Asst Surgeon, relieved from duty at
Ft Randall, D T, and ordered to Ft Barrancas, Fla S
O 142, A G O, June 20, 1888

First Lieut Edward R Morris, Asst Surgeon, leave of ab
sence granted in S O 61, May 28, 1888, Dept of Ariz, ex
tended one mouth S O 142, A G O, June 20, 1888

First I ieut Eugene L Swift, Asst Surgeon, ordered from Tt
Spokane, W T, to Ft Klamath, Ore, for temporary duty
S O 142, A G O, June 20, 1888

OFFICIAL LIST OF CHANGES IN THE MEDICAL CORPS
OF THE U S NAVY, DURING THE WERK ENDING
JUNE 23 1888
Asst Surgeon R P Crandall, from "Mmnesota" and to the
"Saratoga"
Medical Director Educated Street,

Medical Director Edward Shippen, placed on retired list June

Asst Surgeon S Sayre, to the Navy Vard, New York Medical Inspector Michael Bradley, ordered to examination for

Surgeon Edward Kershner, ordered to Marine Rendezvous, New York

Surgeon C H White, detached from Museum of Hygiene and

wait orders
Surgeon J Rusus Tryon, from Marine Rendezvous, N Y, and special duty, N Y
P A Surgeon Rusus McCarty, from Naval Hospital, Chelsea,
Mass, and to the "Yantic"
P A Surgeon L G Henneberger, from special duty, Ne /
York, and to the "Minnesota"
Asst Surgeon I W Kite, from "Yantic" and to the "Rich mond"
Surgeons Woolverton White Woods and DuBois, ordered for

Surgeons Woolverton, White, Woods and DuBois, ordered for examination preliminary to promotion to the grade of Medi cal Inspector

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